

TC-WA9ES

SERVICE MANUAL

US Model
Canadian Model
E Model
Australian Model



Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen. "DOLBY", the double-D symbol  and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	TCM-200R12

SPECIFICATIONS

System

Recording system

4-track 2-channel stereo

Fast-winding time (approx.)

90 sec. (with Sony C-60 cassette)

Bias

AC bias

Signal-to-noise ratio (at peak level, weighted, and with Dolby NR off)

Type I tape, Sony Type I (NORMAL): 56 dB

Type II tape, Sony Type II (HIGH): 58 dB

Type IV tape, Sony Type IV (METAL): 59 dB

S/N ratio improvement (approximate values)

With Dolby B NR on: 5 dB at 1 kHz, 10 dB at 5 kHz

With Dolby C NR on: 15 dB at 500 Hz, 20 dB at 1 kHz

With Dolby S NR on: 10 dB at 100 Hz, 24 dB at 1 kHz

Harmonic distortion

0.4 % (with Type I tape, Sony Type I (NORMAL):

160 nWb/m 315 Hz, 3rd H.D.)

1.8 % (with Type IV tape, Sony Type IV (METAL):

250 nWb/m 315 Hz, 3rd H.D.)

Frequency response (Dolby NR off)

Type I tape, Sony Type I (NORMAL): 25 - 16,000 Hz

(±3 dB, IEC)

Type II tape, Sony Type II (HIGH): 25 - 18,000 Hz

(±3 dB, IEC)

Type IV tape, Sony Type IV (METAL): 25 - 20,000 Hz

(US, Canadian model),

25 - 19,000 Hz (E, Australian model)

(±3 dB, IEC)

30 - 15,000 Hz (±3 dB, -4 dB recording)

Wow and flutter

±0.09% W. Peak (IEC)

0.06% W. RMS (NAB)

±0.16% W. Peak (DIN)

Variable pitch range (approx.)

-30 to +30%

Inputs

Line inputs (phono jacks)

Sensitivity: 0.16 V

Input impedance: 47 kilohms

Outputs

Line outputs (phono jacks)

Rated output level: 0.5 V at a load impedance of

47 kilohms

Load impedance: Over 10 kilohms

Headphones (stereo phone jack)

Output level: 0 to 3 mW at a load impedance of

32 ohms

General

Power requirements

US, Canadian model 120 V AC, 60 Hz

Australian model 240 V AC, 50/60 Hz

E model 120/220/240 V AC, 50/60 Hz.

Power consumption

30 W

Dimensions (approx.) (w/h/d)

430 × 135 × 350 mm (w/h/d)

(17 × 5 3/4 × 13 7/8 inches)

including projecting parts and controls

Mass (approx.)

6.5 kg (14 lbs 6 oz)

Supplied accessories

Audio connecting cords (2 phono plugs - 2 phono

plugs) (2)

Remote commander RM-J903 (1)*

Sony size AA (R6) batteries (2)*

* not supplied with the US, Canadian models

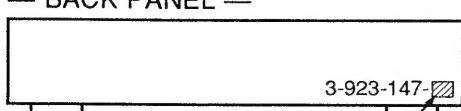
Design and specifications are subject to change without notice.

STEREO CASSETTE DECK
SONY®



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MODEL IDENTIFICATION			
— BACK PANEL —			



US, Canadian Model : 0□ (U/CA)
 E Model : 1□ (E2/E3)
 Australian Model : 2□ (AU)

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

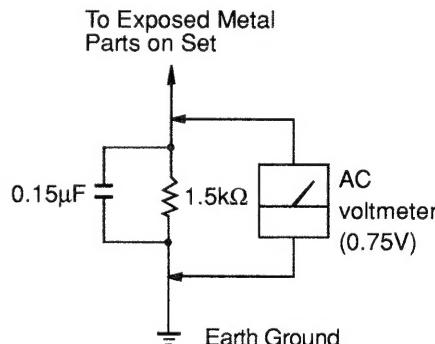


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED LINE WITH MARK Δ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

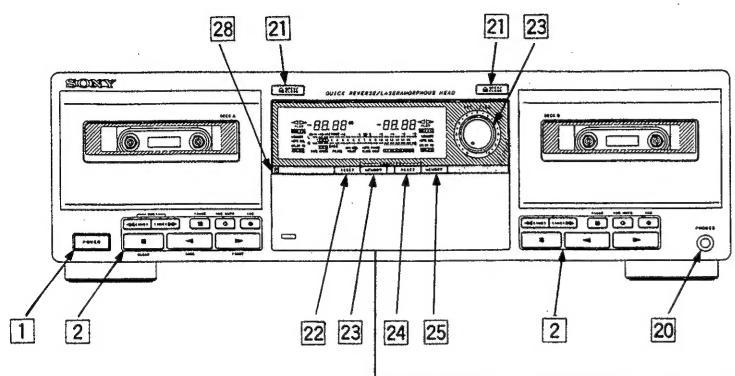
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE Δ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1

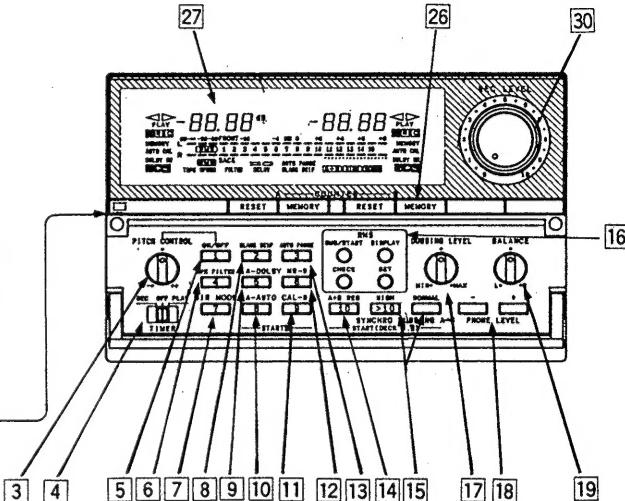
GENERAL

LOCATION OF CONTROL

Front Panel



Inside of Sealing Panel (Keeping Section of Controls, switches, etc.)



- 1 POWER switch
- 2 Tape operation buttons
 - (stop/RMS CLEAR) button
 - ◀ (reverse play/RMS BACK) button
 - ▶ (forward play/RMS FRONT) button
 - ◀◀ (fast-forwarding/AMS*/RMS**+) button
 - ▶▶ (rewinding/AMS*/RMS**-) button
- 3 1/PITCH CONTROL (Tape speed)
- 4 4/TIMER switch
- 5 7/PITCH CONTROL ON/OFF (Tape speed) button
- 6 2/MPX (multiplex) FILTER ON/OFF button
- 7 5/DIR (direction) MODE switch
- 8 BLANK SKIP button
- 9 DOLBY NR (Dolby noise reduction) buttons (deck A)
 - ON/OFF button
 - B/C/S button
- 10 8/AUTO CAL button (deck A)
- 11 9/AUTO CAL button (deck B)
- 12 6/DOLBY NR (Dolby noise reduction) buttons (deck B)
 - ON/OFF buttons
 - B/C/S buttons

- 13 AUTO PAUSE button
- 14 A+B REC (simultaneous recording) button
- 15 SYNCHRO DUBBING buttons
 - HIGH Speed button
 - NORMAL Speed button
- 16 RMS** buttons
 - RMS/START button
 - DISPLAY button
 - CHECK button
 - SET button
- 17 DUBBING LEVEL control
- 18 PHONE LEVEL +/- buttons
- 19 BALANCE control
- 20 PHONES (headphones) jack (stereo phone jack)
- 21 ▲ OPEN/CLOSE button
- 22 COUNTER RESET (deck A)
- 23 COUNTER MEMORY (deck A)
- 24 COUNTER RESET (deck B)
- 25 COUNTER MEMORY (deck B)
- 27 Display panel and Indicator tube
- 28 Remote control sensor
- 30 REC (recording) LEVEL control

* AMS is an abbreviation for Automatic Music Sensor.
** RMS is an abbreviation for Random Music Sensor. (deck B only)

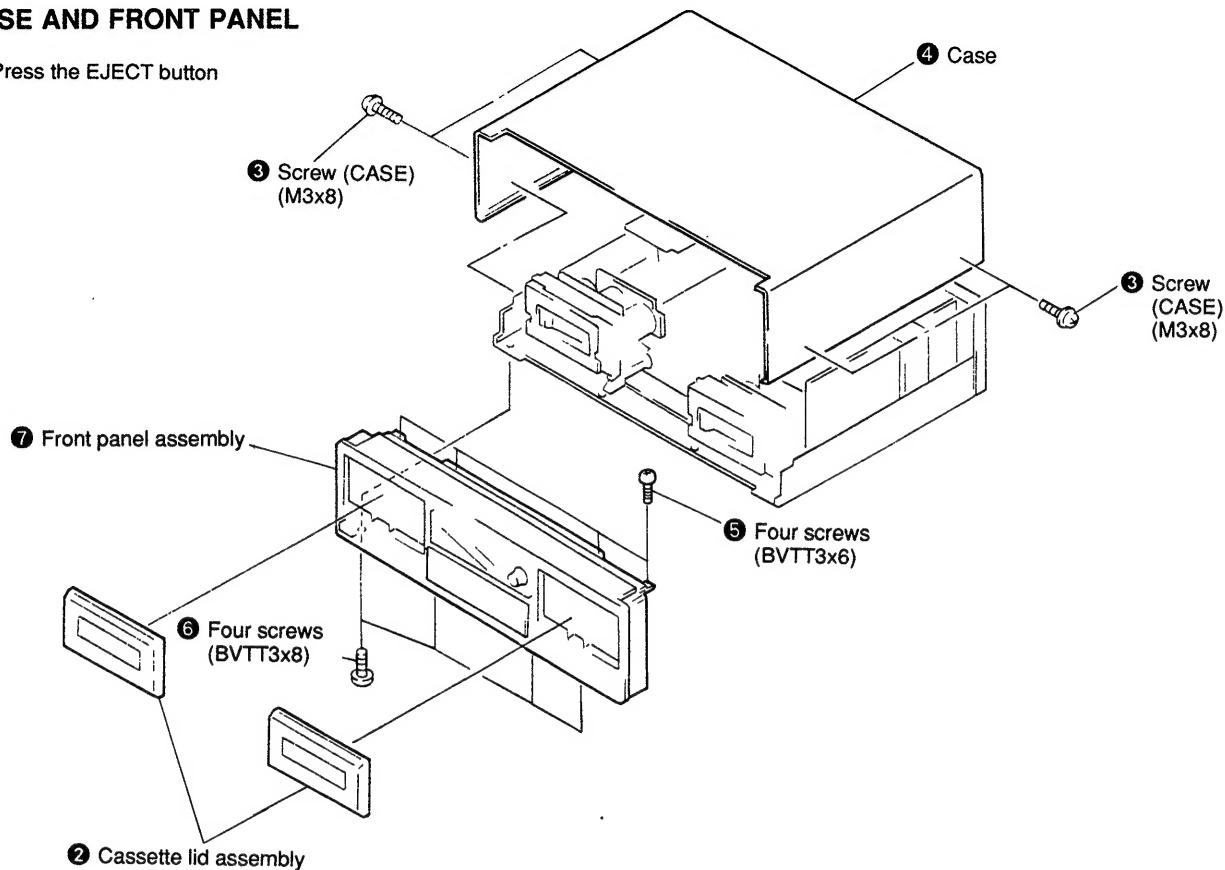
SECTION 2

DISASSEMBLY

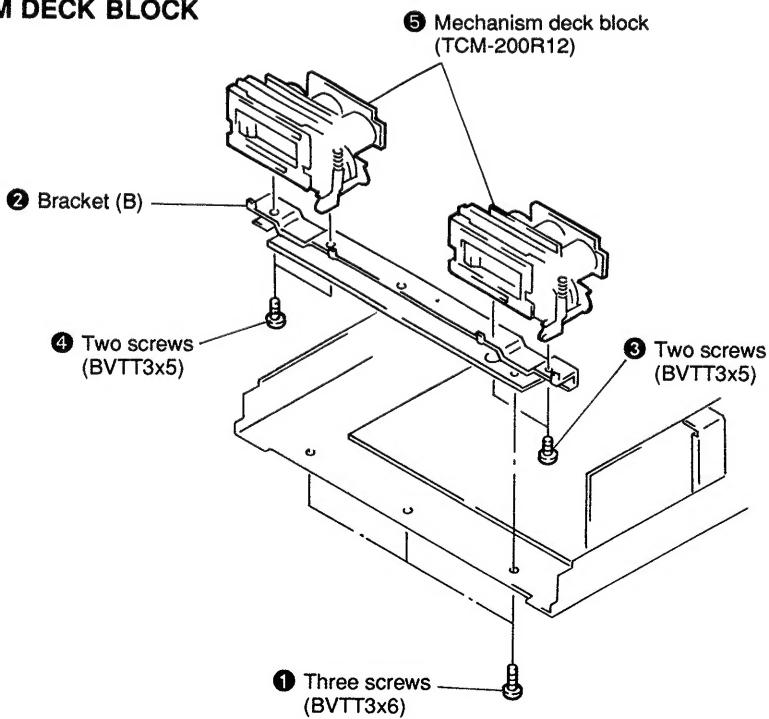
Note : Follow the disassembly procedure in the numerical order given.

2-1. CASE AND FRONT PANEL

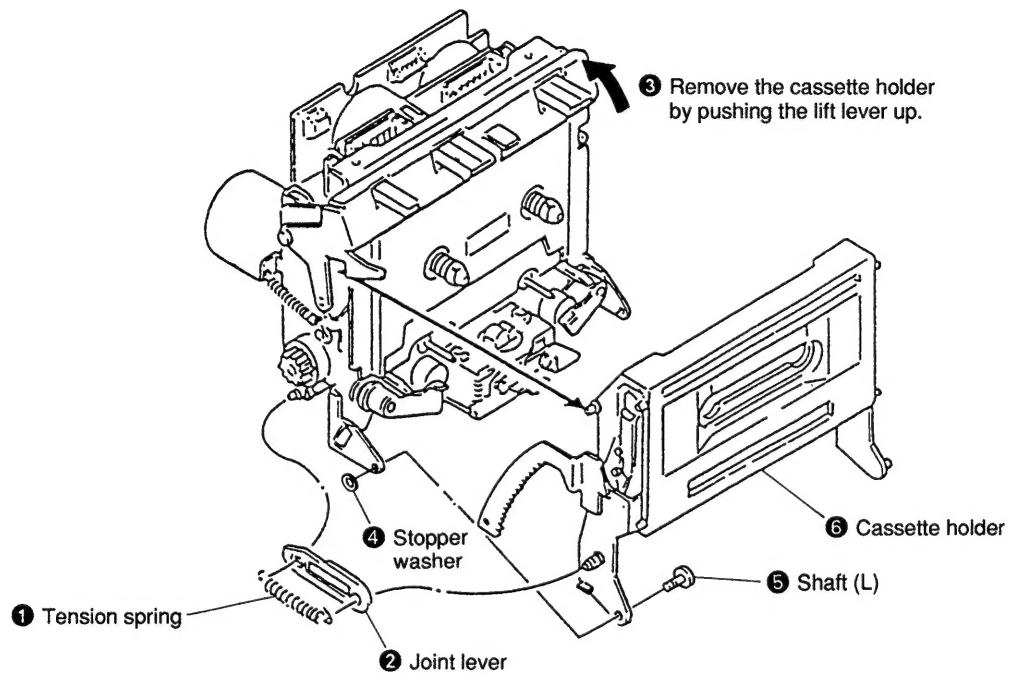
- ① Press the EJECT button



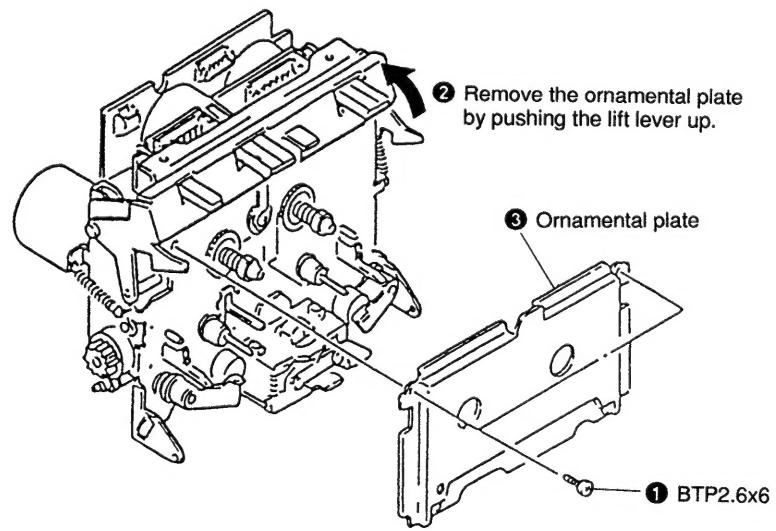
2-2. MECHANISM DECK BLOCK



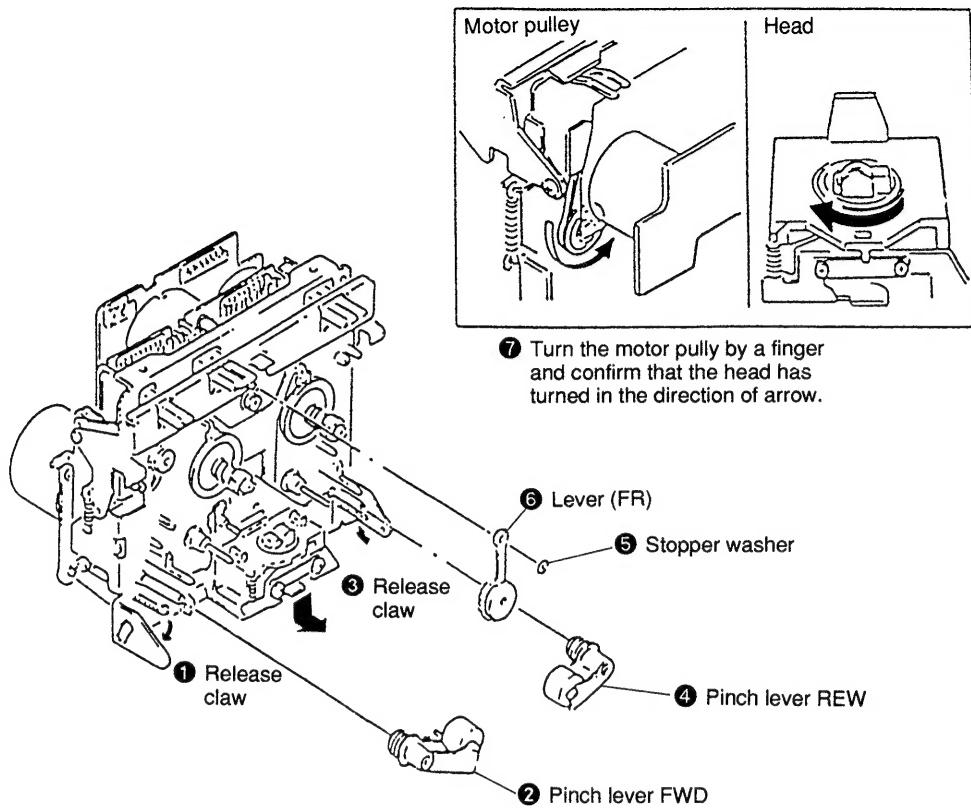
2-3-1. CASSETTE HOLDER



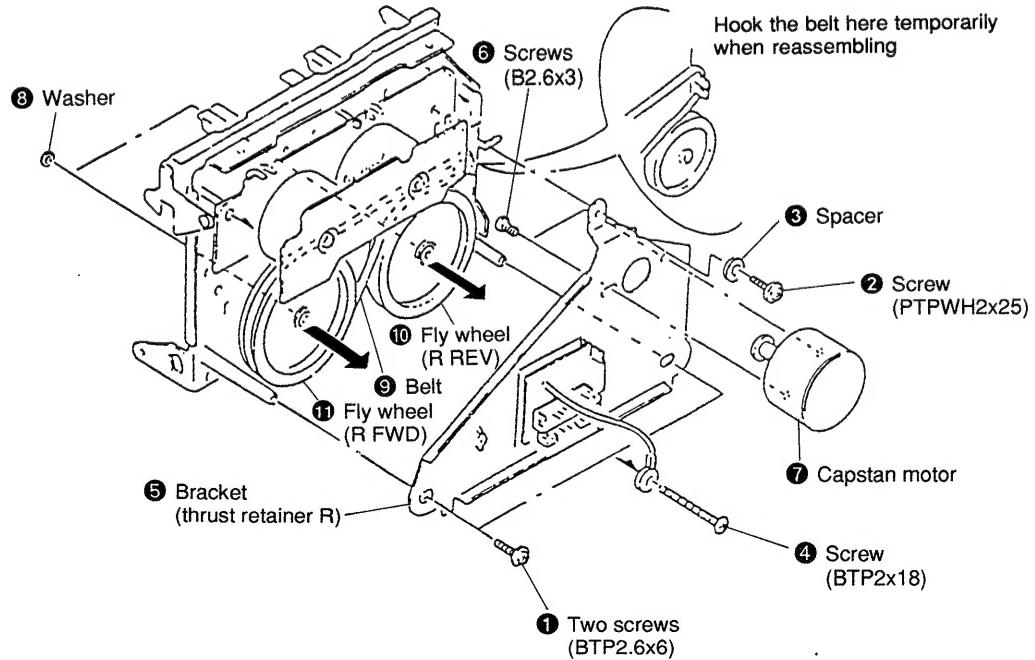
2-3-2. ORNAMENTAL PLATE



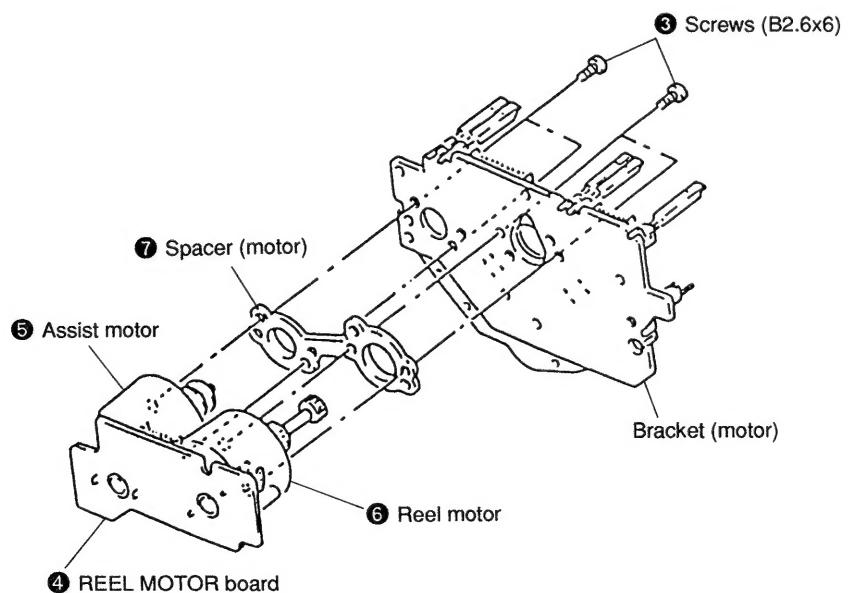
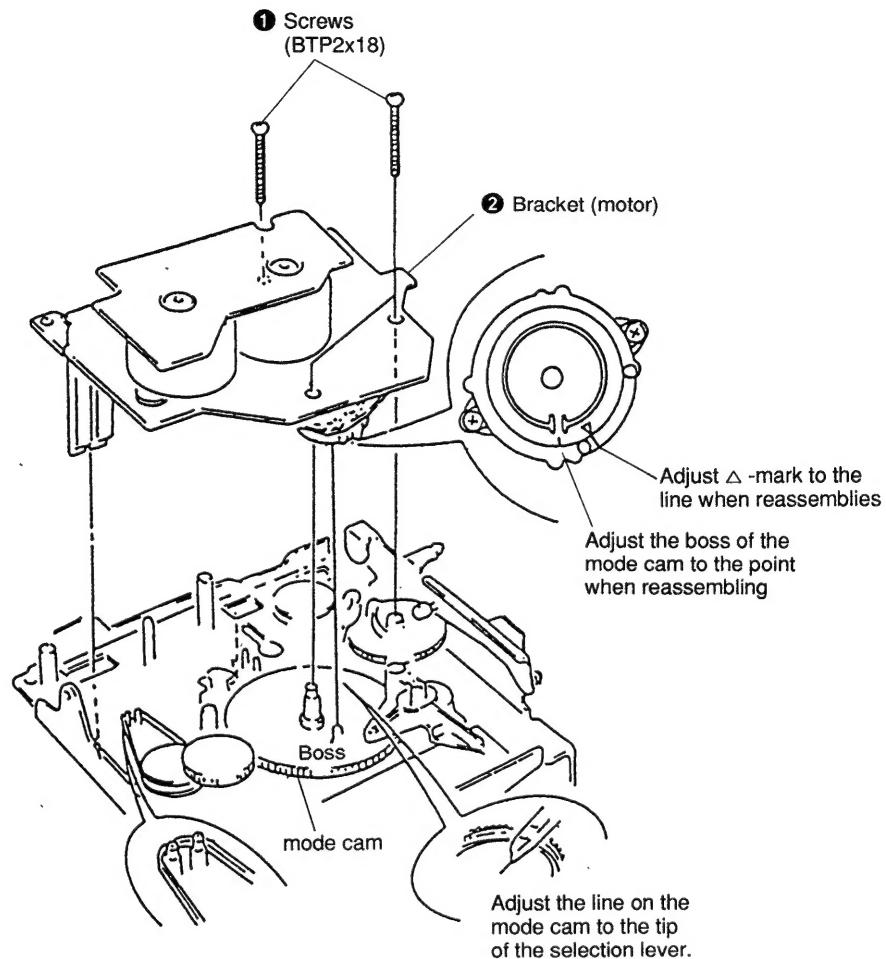
2-3-3. PINCH LEVER, HEAD



2-3-4. CAPSTAN MOTOR, FLY WHEEL



2-3-5. REEL AND ASSIST MOTORS



SECTION 3

ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :

record/playback head	pinch roller
erase head	rubber belt
capstan	idler
2. Demagnetize the record/playback and erase head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	30 — 60 g • cm (0.42 — 0.83 oz • inch)
FWD Back tension	CQ-102C	1 — 5 g • cm (0.014 — 0.063 oz • inch)
REV	CQ-102RC	30 — 60 g • cm (0.42 — 0.83 oz • inch)
REV Back tension	CQ-102RC	1 — 5 g • cm (0.014 — 0.063 oz • inch)
FF, REW	CQ-201B	65 — 90 g • cm (0.90 — 1.25 oz • inch)

3-2. ELECTRICAL ADJUSTMENTS

Note : The adjustments should be performed in the order given in this service manual. As a rule, adjustments about playback should be performed before those about recording.

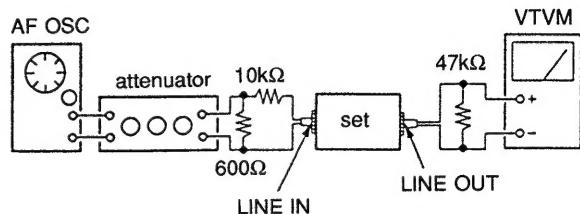
The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch : OFF
 DIRECTION switch : \leftrightarrow
 MPX FILTER switch : OFF
 TIMER switch : OFF

- Standard Record :
 Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

— Record Mode —



0dB = 0.775V

Standard Input Level

Input Terminal	LINE IN
source impedance	10kΩ
input level	0.5 V (-3.8 dB)

Standard Output Level

Output Terminal	LINE OUT
load impedance	47 kΩ
output level	0.5 V (-3.8 dB)

Test Tape

Type	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment
P-4-L300	315 Hz, 0 dB	PB Level Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment

Test mode

The set will get into TEST MODE by shorting the pins of TP801 (TEST) on Main board before turning the power on, and TEST MODE functions as follows :

1. Reset the memory before power on.
 Method : While press [RESET (Deck A)] and [RESET (Deck B)] together, turn on [POWER].
2. High speed playback
 Pressing HIGH SPEED (DUBBING) button while playback changes to high speed playback and another press of the button returns the set to normal speed playback.
3. Record memory stop
 When starting recording, tape counter is reset to zero and counter memory turned on.
4. Remove the short plug after completion of Adjustment.

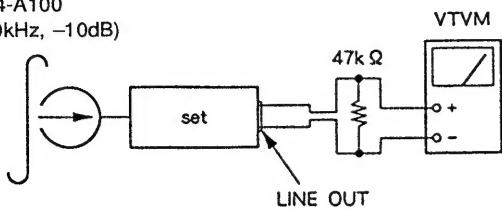
RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

DECK A **DECK B**

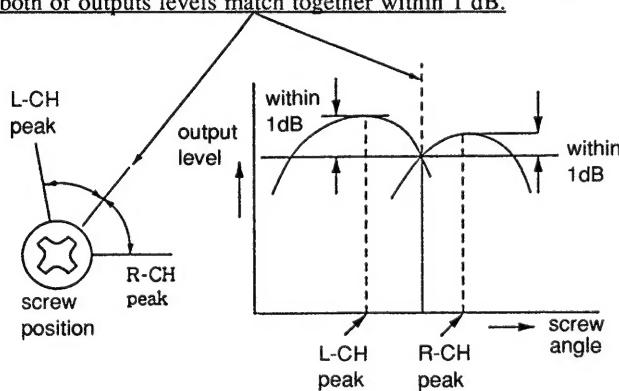
Procedure :

1. Mode : FWD playback

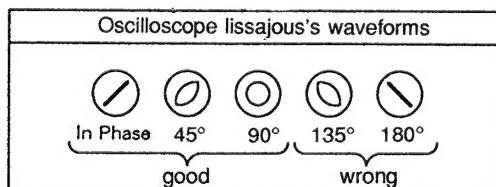
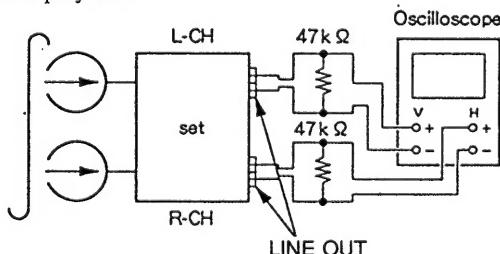
test tape
P-4-A100
(10kHz, -10dB)



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of outputs levels match together within 1 dB.

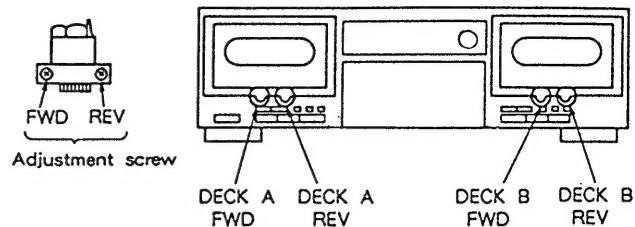


3. Phase Check
Mode : playback



4. Set in the REV mode and repeat the step 1-3.
5. After the adjustments, lock the screws with locking compound.

Adjustment Location : Record/Playback head

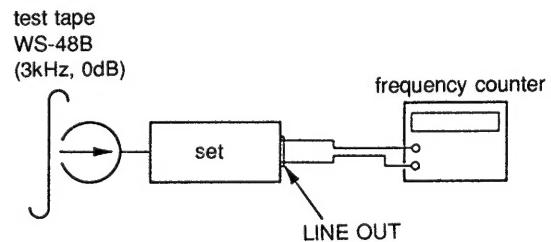


TAPE SPEED ADJUSTMENT

DECK A **DECK B**

Procedure :

1. Get into Test mode. (See page 8.)
2. Adjust the high speed first, starting from Deck A and Deck B.
3. When DECK A adjustment, press the PITCH CONTROL ON/OFF button (PANEL board S963) to OFF.



(high speed adjustment)

1. Set to FWD playback mode.
2. Press the HIGH button (PANEL board S974).
3. Adjust RV871 (DECK A) and RV881 (DECK B) on Main board so that the frequency counter reading becomes $6,000 \pm 30$ Hz.

(normal speed adjustment)

1. Set to FWD playback mode.
2. Press the HIGH button (PANEL board S974) again.
3. Adjust RV872 (DECK A) and RV882 (DECK B) on Main board so that the frequency counter reading becomes $3,000 \pm 15$ Hz.

Frequency difference between FWD mode and REV mode should be within 60 Hz (high speed) or 30 Hz (normal speed).

Frequency difference between deck A and deck B should be within 20 Hz (high speed) or 10 Hz (normal speed).

PLAYBACK LEVEL ADJUSTMENT DECK A DECK B

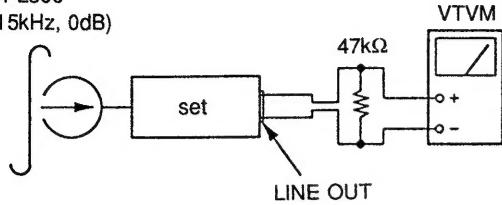
Procedure :

1. Mode : playback

test tape

P-4-L300

(315kHz, 0dB)



Adjust RV131 (L-CH) and RV231 (R-CH) for Deck A and RV151 (L-CH) and RV251 (R-CH) for Deck B so that the reading on VTVM meter the adjustment level below.

Adjustment Level :

LINE OUT level : $-7.7 \text{ dB} \pm 0.5 \text{ dB}$ (0.30 to 0.34 V)

Level difference between channels : less than 0.5 dB.

Check that the LINE OUT level does not change even if playback and stop operation is repeated several times.

PITCH CONTROL SPEED ADJUSTMENT

1. Get into Test mode.
2. Set TAPE SPEED (RV891) to the center and press the PITCH CONTROL ON/OFF button (PANEL board S963) to ON.
3. Playback Deck A and Deck B FWD and adjust RV891.

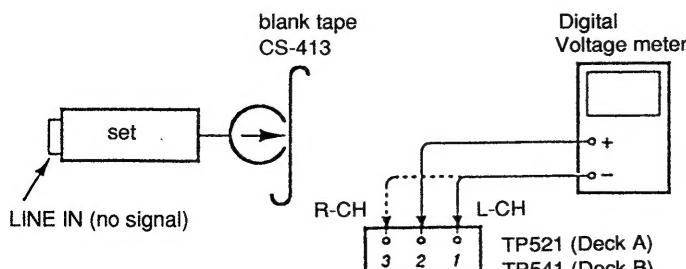
Adjustment Level : $3000 \text{ Hz} \pm 15 \text{ Hz}$

- Frequency difference between Deck A and Deck B should be within 10 Hz.
- Speed difference : VOL MAX $3900 \text{ Hz} \pm 70 \text{ Hz}$
: VOL MIN $2100 \text{ Hz} \pm 70 \text{ Hz}$

BIAS CURRENT ADJUSTMENT

1. Set RV121 and RV221 (DECK A), RV141 and RV241 (DECK B) to mechanical center and turn the set recording mode.
2. Connect digital voltmeter as shown by the following table.
3. Adjust the following transformers for the minimum readings on the digital voltmeter.

DECK	Mesurement Point	Adjustment	Level
A	L	① and ②, TP521	T121
	R	② and ③, TP521	
B	L	① and ②, TP541	T141
	R	② and ③, TP541	



Adjustment Level : 80mV

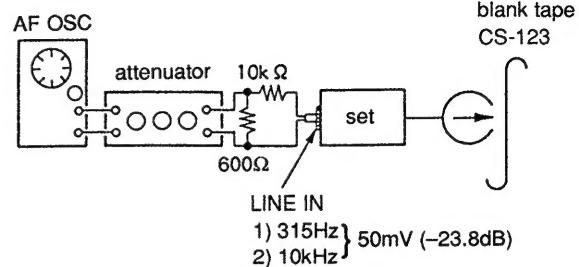
RECORD BIAS ADJUSTMENT DECK A DECK B

Setting :

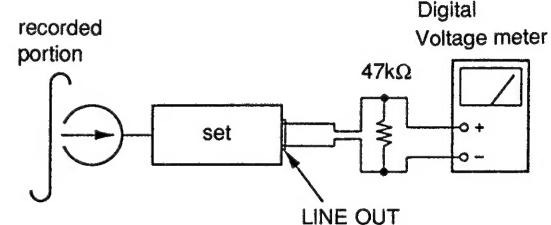
- REC LEVEL control : standard record (See page 8.)
- Get into Test mode. (See page 8.)

Procedure :

1. Mode : record



2. Mode : playback



3. Deck A is RV121 (L-CH) and RV221 (R-CH), deck B is RV141 (L-CH) and RV241 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level :

1. The playback output of 10 kHz level difference against 315 Hz reference should be $\pm 0.5 \text{ dB}$.

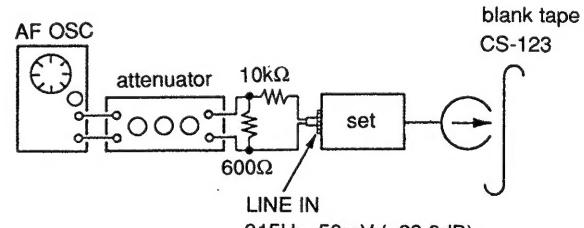
RECORD LEVEL ADJUSTMENT DECK A DECK B

Setting :

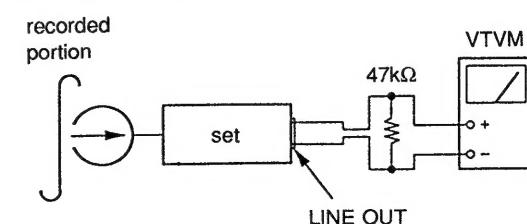
- REC LEVEL control : standard record (See page 8.)
- Get into Test mode. (See page 8.)

Procedure :

1. Mode : record



2. Mode : playback



3. Deck A is RV301 (L-CH) and RV401 (R-CH), deck B is RV351 (L-CH) and RV451 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level : $-23.8 \text{ dB} \pm 0.5 \text{ dB}$ (47 to 53 mV)

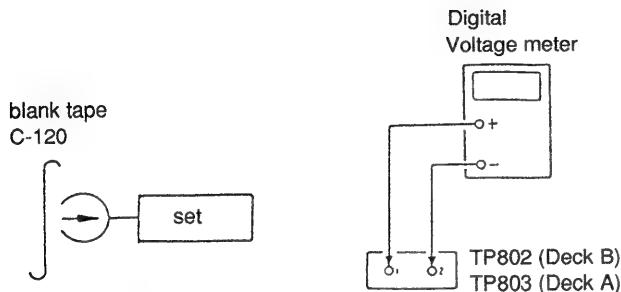
QUICK REVERSE SENSITIVITY ADJUSTMENT

DECK A **DECK B**

Conditions :

DIRECTION MODE switch : \leftrightarrow

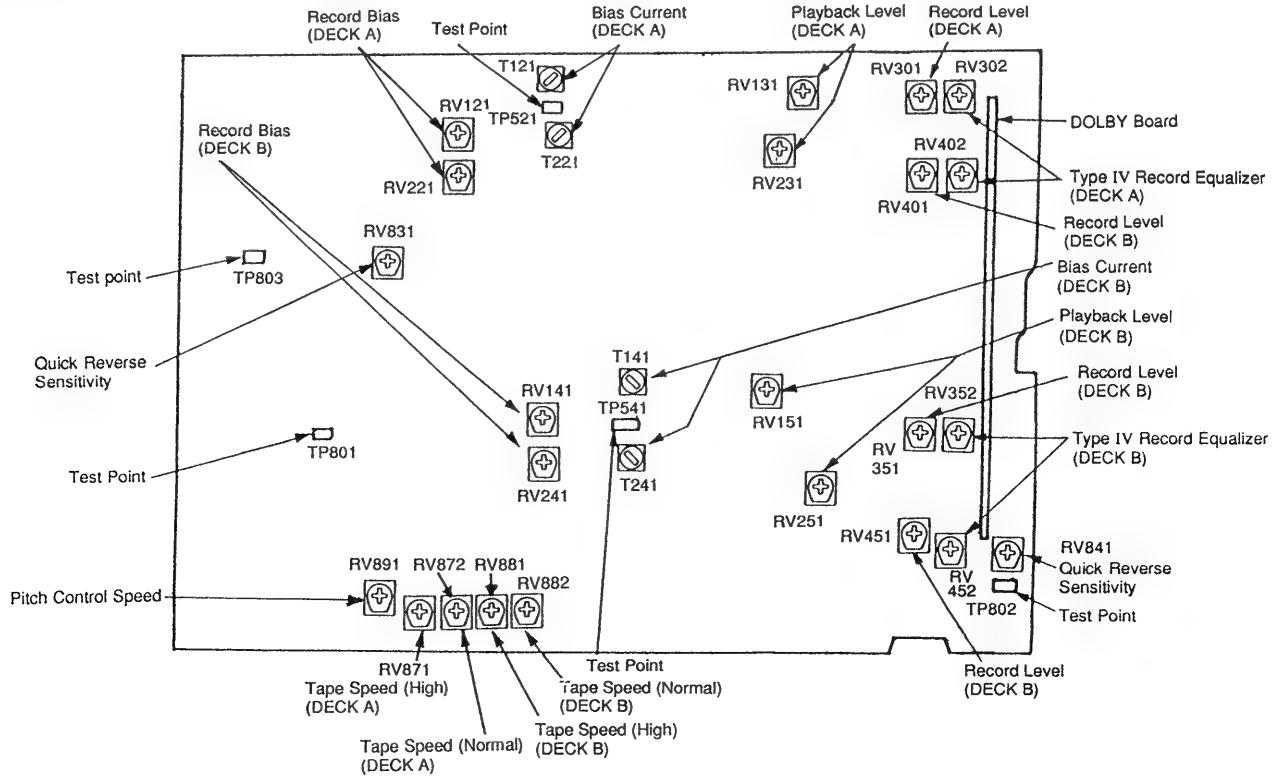
Adjustment procedure :



1. Connect the digital voltmeter to test point TP803 (DECK A)/TP802 (DECK B).
2. Load C-120 tape cassette and playback the leading portion in FWD mode.
3. Adjust the RV831 (DECK A), RV841 (DECK B) for $4.5 \pm 0.5 \text{ V}$ reading on the digital voltmeter.
4. Playback C-120 tape cassette in FWD mode again.
5. Confirm that the reading on the digital voltmeter is "L" level at the magnetic portion of the tape.
6. Confirm that the tape stop around the tape end (border of the leading and the magnetic portions).

Adjustment Location

[MAIN BOARD] — Conductor Side —



RECORD EQ (TYPE IV) ADJUSTMENT

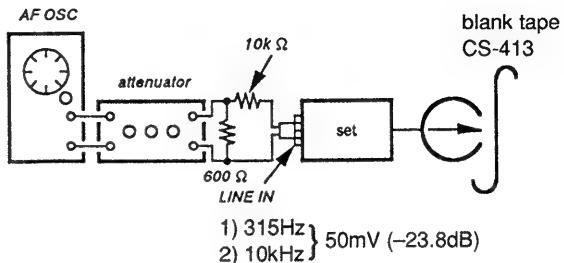
DECK A **DECK B**

Setting :

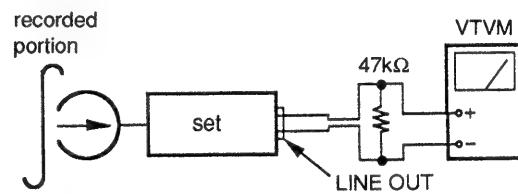
REC LEVEL control : standard record (See page 8.)

Procedure :

1. Mode : record



2. Mode : playback



3. Playback the signal recorded in step 1.

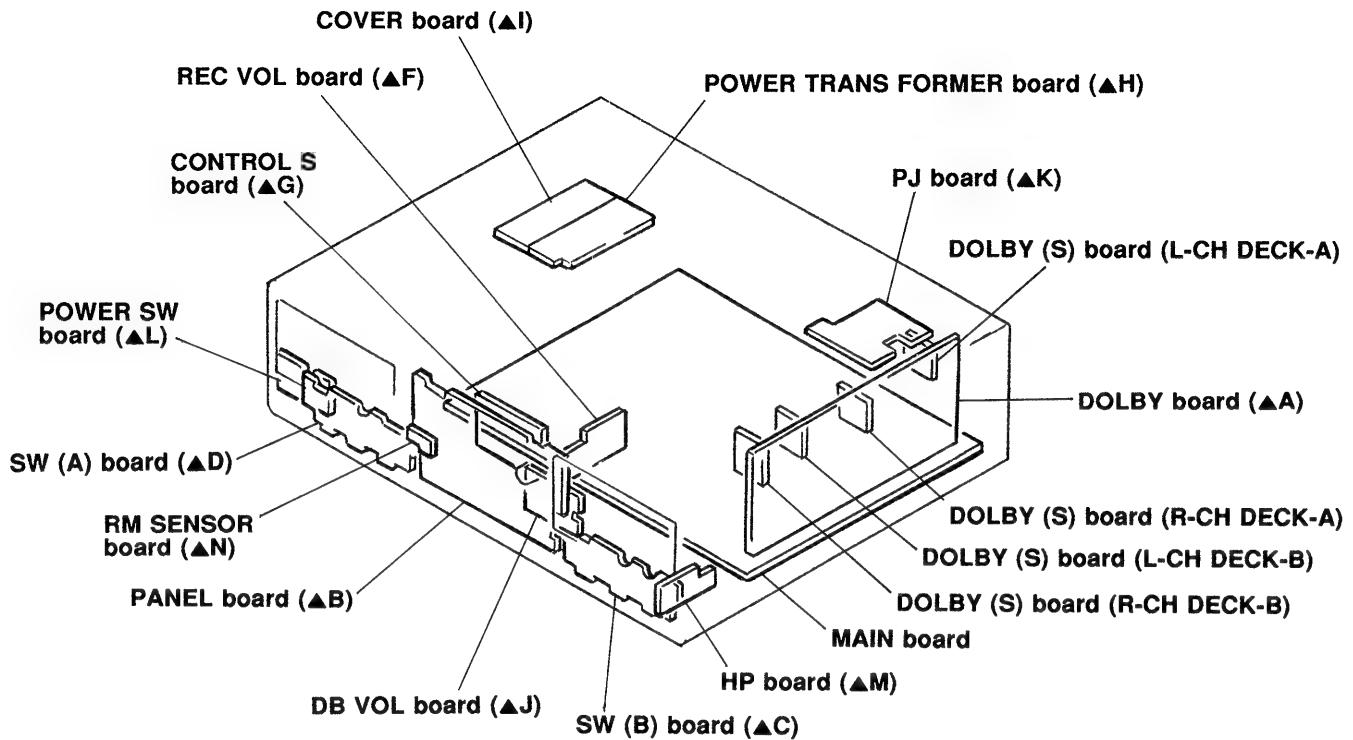
Adjust RV302 (L-CH) and RV402 (R-CH) for Deck A and RV352 (L-CH) and RV452 (R-CH) for Deck B so that the difference of L-ch and R-ch of 315 kHz and 10 kHz becomes within 1 dB.

Adjustment Level :

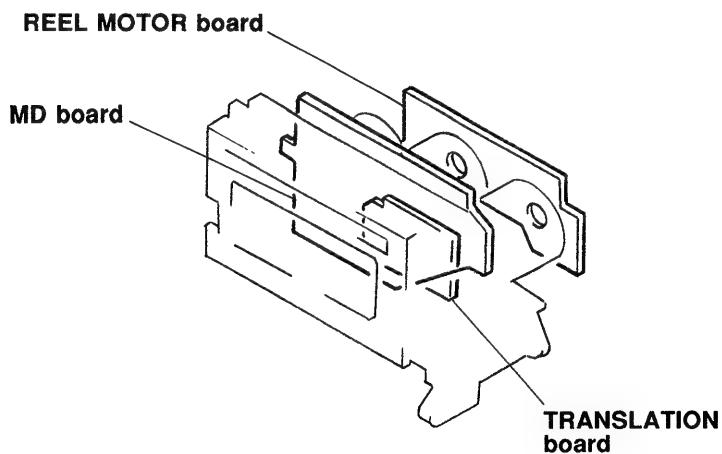
1. The playback output of 10 kHz level difference against 315 Hz reference should be $\pm 4 \text{ dB}$.

SECTION 4 DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION



NOTE : ▲A-▲D, ▲F-▲N are including in Panel board.



4-2. IC PIN FUNCTIONS

• IC801 SYSTEM CONTROLLER (μPD78043AGF-023-3B9)

Pin No.	Pin Name	I/O	Function
1	REC/PB (A)	O	A deck REC/PB switching output
2	BIAS CAL4	(A)	BIAS CAL control 4
3	BIAS CAL3		BIAS CAL control 3
4	BIAS CAL2		BIAS CAL control 2
5	BIAS CAL1		BIAS CAL control 1
6	VOL. LED ON/OFF	O	REC VOL LED light switching output
7	AMS/BS	O	AMS/BS switching output
8	VDD	—	+5V
9	FL. SCLK	O	Clock output to the display controller (IC901)
10	FL. S OUT	O	Information output to the display controller (IC901)
11	FL. S IN	I	Information input from the display controller (IC901)
12	FL. SYNC	O	Communication SYNC output to the display controller (IC901)
13	DISP. RESET MD. RESET	O	Reset information output to the display controller (IC901) and mechanism controller (IC802)
14	MD. SCLK	O	Clock output to the mechanism controller (IC802)
15	MD. S OUT	O	Information output to the mechanism controller (IC802)
16	MD. S IN	I	Information input from the mechanism controller (IC802)
17	RESET	I	System reset input
18	MPX. ON/OFF	O	MPX ON/OFF switching output
19	POWER. OUT	O	Power off delay output
20	A. VSS	—	GND
21	METER. Lch	I	Meter Lch input
22	METER. Rch	I	Meter Rch input
23	VOL. A/D	I	REC VOL rotation angle detection input
24	KEY2	I	Key input 2
25	KEY1	I	Key input 1
26	AMS. IN	I	AMS signal input
27	QUICK. B	I	Quick sensor signal input: (B deck)
28	QUICK. A	I	Quick sensor signal input: (A deck)
29	A VDD	—	+5V
30	V Ref	—	
31	MD. S REQ	I	Communication REQ signal input from the mechanism controller (IC802)
32	XT2	—	Not used (open)
33	Vss	—	GND
34	X1	—	Clock 4.0 MHz
35	X2	—	Clock 4.0 MHz
36	LEVEL CAL 2	(B)	O
37	LEVEL CAL 1		O
38	Gp. CAL 2	(B)	O
39	Gp. CAL 1		O
40	LEVEL CAL 2	(A)	O
41	LEVEL CAL 1		O

Pin No.	Pin Name	I/O	Function
42	Gp. CAL 2	O	Gp CAL control 2
43	Gp. CAL 1		Gp CAL control 1
44	H.P STB	O	Strobe signal output for writing data to the electronic VOL (IC60)
45	COM. DATA. OUT	O	Information output to the backup (IC810) and electronic VOL (IC60)
46	COM. CLOCK. OUT	O	Clock output to the backup (IC810) and electronic VOL (IC60)
47	POWER IN	I	Power detection input
48	IC	—	GND
49	<u>VOL. UP</u>	O	Rotates REC VOL clockwise
50	<u>VOL. DOWN</u>	O	Rotates REC VOL counterclockwise
51	VOL. SP. H/L	O	REC VOL rotation control output
52	VDD	—	+5V
53	BIAS. CAL 4	O	Bias control 4
54	BIAS. CAL 3		Bias control 3
55	BIAS. CAL 2		Bias control 2
56	BIAS. CAL 1		Bias control 1
57	PITCH. CON ON/OFF	O	Pitch control ON/OFF switching output
58	BIAS. ON/OFF	O	Bias ON/OFF switching output
59	RELAY. ON/OFF		Relay ON/OFF switching output
60	REC MUTE. ON/OFF	O	REC MUTE ON/OFF switching output
61	BIAS. ON/OFF	O	Bias ON/OFF switching output
62	RELAY. ON/OFF		Relay ON/OFF switching output
63	REC. MUTE. ON/OFF	O	REC MUTE ON/OFF switching output
64	PB. MUTE. A/B	O	PB mute A deck/B deck switching output
65	AMS. SEL. A/B	O	AMS A deck/B deck switching output
66	CAL. ON/OFF	O	Auto CAL ON/OFF switching output
67	OSC. H/L	O	CAL oscillation frequency switching output
68	OSC. ON/OFF	O	CAL oscillation ON/OFF switching output
69	LINE. MUTE. ON/OFF	O	Line mute ON/OFF switching output
70	SPEED. H/L	O	Speed H/L switching output
71	V. LOAD	—	-7.5V
72	IN. SEL 2	O	Input signal switching control output 2
73	IN. SEL 1	O	Input signal switching control output 1
74	OUT. SEL	O	Output signal switching output
75	<u>REC/PB</u>	O	REC/PB switching output
76	DOL. S. ON/OFF		Dolby S ON/OFF switching output
77	DOL. B/C		Dolby B/C switching output
78	DOL. ON/OFF		Dolby ON/OFF switching output
79	A. DOL 1	O	Dolby switching control output 1
80	A. DOL 2	O	Dolby switching control output 2

• IC802 MECHANISM CONTROLLER (M38002M2-185FP)

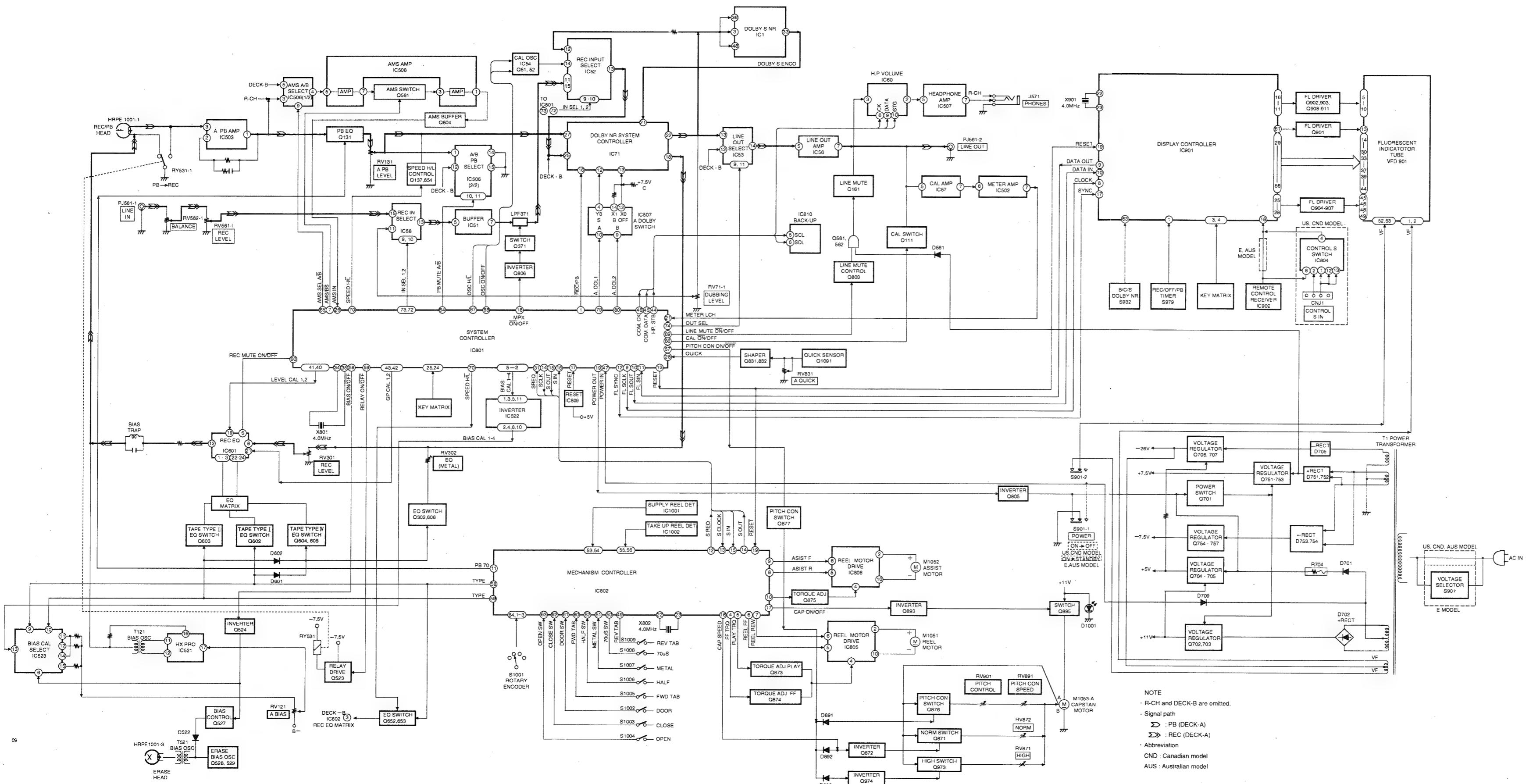
Pin No.	Pin Name	I/O	Function
1	A. CAM. SW2	I	Rotary encoder (S1001-A) detection 2 input
2	A. CAM. SW3	I	Rotary encoder (S1001-A) detection 3 input
3	A. CAM. SW4	I	Rotary encoder (S1001-A) detection 4 input
4	A. FF. TRQ	O	FF torque control output
5	A. PLAY. TRQ	O	PLAY torque control output
6	A. REEL. FF	O	FF reel motor control output
7	A. REEL. REW	O	REW reel motor control output
8	A. ASIST. R	O	ASIST motor control R output
9	A. ASIST. F	O	ASIST motor control F output
10	A. CAM. TRQ	O	CAM torque control output
11	A. PB. 70	O	PB 70 μ information output
12	S. REQ	O	Communication REQ signal output to the system controller (IC801)
13	S. CLOCK	I	Clock input from the system controller (IC801)
14	S. OUT	O	Information output to the system controller (IC801)
15	S. IN	I	Information input from the system controller (IC801)
16	CAP. SPEED	O	Capstan speed control output
17	CAP. ON/OFF	O	Capstan ON/OFF switching output
18	CN Vss	I	Connected to GND.
19	RES	I	Reset information input from the system controller (IC801)
20	B TYPE II	O	Tape type II information output
21	B TYPE I	O	Tape type I information output
22	XIN	I	Clock 4.0 MHz
23	XOUT	O	
24	Vss	—	GND
25	B. PB. 70	O	PB 70 μ information output
26	B. CAM. TRQ	O	CAM torque control output
27	B. ASIST. F	O	ASIST motor control F output
28	B. ASIST. R	O	ASIST motor control R output
29	B. REEL. REW	O	REW reel motor control output
30	B. REEL. FF	O	FF reel motor control output
31	B. PLAY. TRQ	O	PLAY torque control output
32	B. FF. TRQ	O	FF torque control output
33	B. CAM. SW1	I	Rotary encoder (S1001-B) detection 1
34	B. CAM. SW2	I	Rotary encoder (S1001-B) detection 2
35	B. CAM. SW3	I	Rotary encoder (S1001-B) detection 3
36	B. CAM. SW4	I	Rotary encoder (S1001-B) detection 4
37	B. OPEN. SW	I	OPEN switch (S1004-B) detection input
38	B. CLOSE. SW	I	CLOSE switch (S1003-B) detection input
39	B. DOOR. SW	I	DOOR switch (S1002-B) detection input
40	B. FWD. TAB	I	FWD, TAB switch (S1005-B) detection input

Pin No.	Pin Name	I/O	Function	
41	B. T REEL. OUT	I	T reel OUT sensor waveform input	(B deck)
42	B. T REEL. IN	I	T reel IN sensor waveform input	
43	B. S REEL. OUT	I	S reel OUT sensor waveform input	
44	B. S REEL. IN	I	S reel IN sensor waveform input	
45	B. HALF	I	Half switch (S1006-B) detection input	
46	B. METAL	I	METAL switch (S1007-B) detection input	
47	B. 70 μ . SW	I	70 μ switch (S1008-B) detection input	
48	B. REV. TAB	I	REV. TAB switch (S1009-B) detection input	
49	A. REV. TAB	I	REV. TAB switch (S1006-A) detection input	(A deck)
50	A. 70 μ . SW	I	70 μ switch (S1008-A) detection input	
51	A. METAL. SW	I	METAL switch (S1007-A) detection input	
52	A. HALF. SW	I	HALF switch (S1006-A) detection input	
53	A. S. REEL IN	I	S reel IN sensor waveform input	
54	A. S. REEL OUT	I	S reel OUT sensor waveform input	
55	A. T. REEL IN	I	T reel IN sensor waveform input	
56	A. T. REEL OUT	I	T reel OUT sensor waveform input	
57	Vcc	—	+5V power supply	(A deck)
58	A TYPE I	O	Tape type I information output	
59	A TYPE II	O	Tape type II information output	
60	A. FWD. TAB	I	FWD. TAB switch (S1005-A) detection input	
61	A. DOOR. SW	I	DOOR switch (S1002-A) detection input	
62	A. CLOSE. SW	I	CLOSE switch (S1003-A) detection input	
63	A. OPEN. SW	I	OPEN switch (S1004-A) detection input	
64	A. CAM. SW1	I	Rotary encoder (S1001-A) detection 1 input	

• IC901 DISPLAY CONTROLLER (M38122M2-103FP)

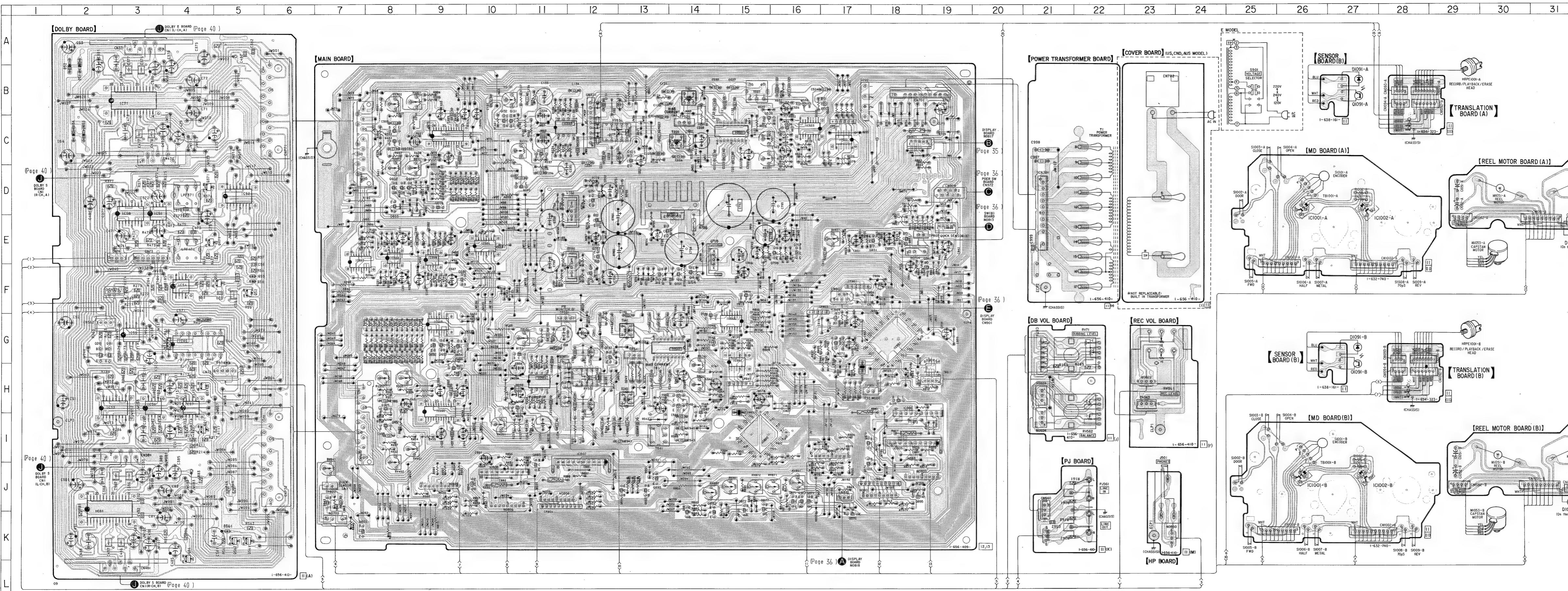
Pin No.	Pin Name	I/O	Function
1	KEY3	I	Key input 3
2	KEY2	I	Key input 2
3	KEY1	I	Key input 1
4	KEY0	I	Key input 0
5		—	
6		—	} Open
7		—	GND
8	CLOCK	I	Clock input from the system controller (IC801)
9	DATA. OUT	O	Information output to the system controller (IC801)
10	DATA. IN	I	Information input from the system controller (IC801)
11	G6	O	FL display grid control G6 output
12	G5	O	FL display grid control G5 output
13	G4	O	FL display grid control G4 output
14	G3	O	FL display grid control G3 output
15	G2	O	FL display grid control G2 output
16	G1	O	FL display grid control G1 output
17	SYNC	O	Communication SYNC output to the system controller (IC801)
18	SIRCS	I	CIRC input from the remote commander reception (IC902)
19	RESET	I	Reset information input from the system controller (IC801)
20	XCIN	I	Not used (connected to GND).
21	XCOUT	O	Not used (open).
22	XIN	I	
23	XOUT	O	} Clock (4.0MHz)
24	Vss	—	GND
25 to 56	P1 to P32	O	FL display segment control output P1 to P32
57	Vcc	—	+5V power supply
58	V. DISP	—	-25V power supply
59	A Vss	—	Connected to GND.
60	V REF	—	Connected to +5V.
61	P33		FL display segment control output P33
62			Connected to GND.
63		I	Connected to GND.
64	KEY4	I	Key input 4

4-3. BLOCK DIAGRAM



4-4. PRINTED WIRING BOARD — MAIN, PANEL, DECK BLOCK —
• See page 12 for Circuit Boards Location.

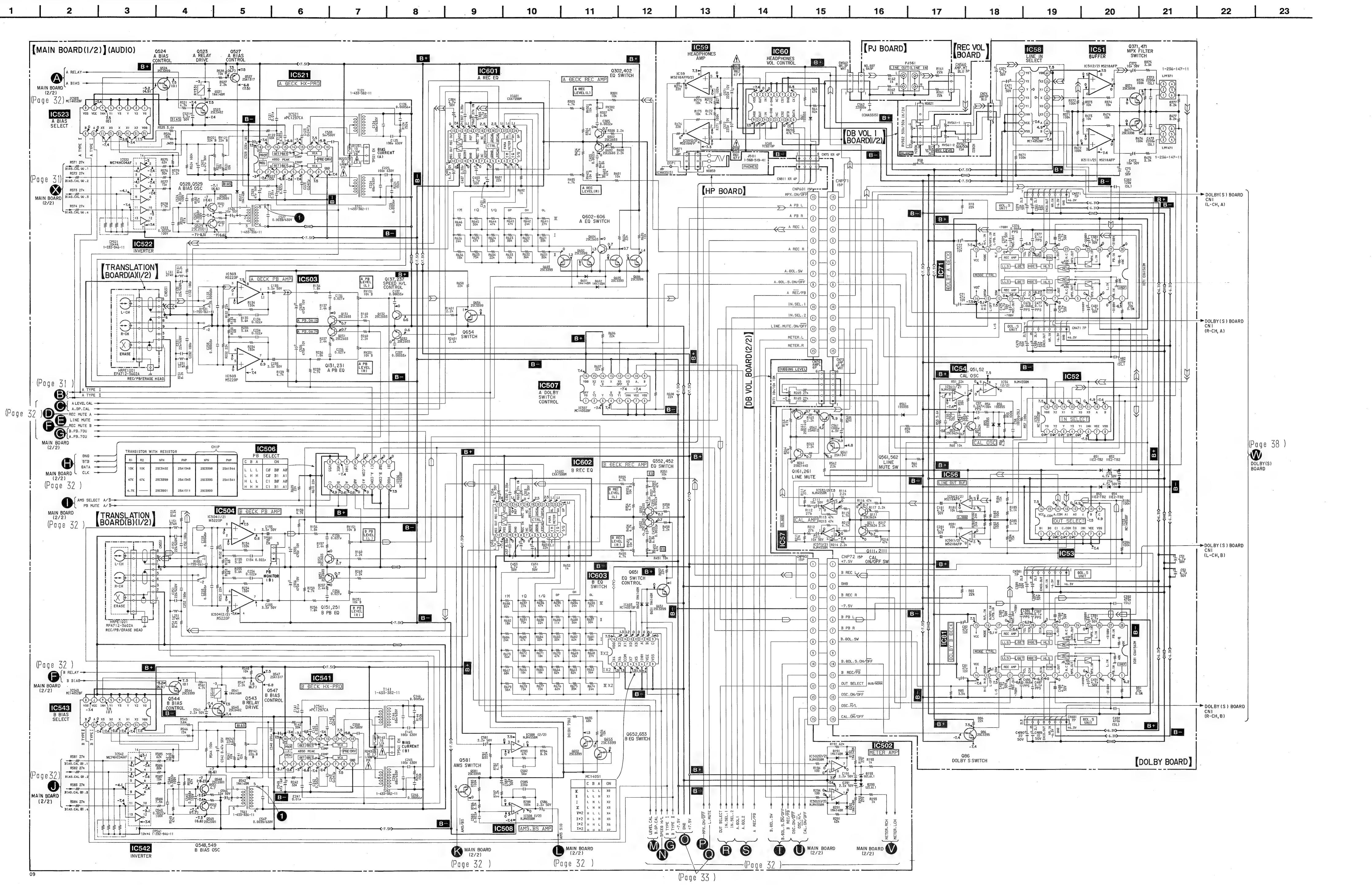
• See page 12 for Circuit Boards Location.



Note:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : parts extracted from the conductor side.
- : Pattern from the side which enable seeing.
- Abbreviation
 - CND : Canadian model.
 - AUS : Australian model.

4-5. SCHEMATIC DIAGRAM — MAIN (1/2), PANEL BLOCK — (AUDIO)



Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D51	B-2	IC71	B-3	Q603	D-8
D52	B-2	IC81	J-2	Q604	D-8
D53	C-2	IC502	E-8	Q605	D-8
D54	C-2	IC503	C-11	Q606	D-9
D55	F-5	IC504	H-11	Q651	I-9
D56	F-8	IC506	E-10	Q652	G-9
D57	G-1	IC507	E-10	Q653	G-9
D58	E-8	IC508	E-9	Q654	G-9
D59	E-8	IC521	C-15	Q701	F-14
D60	E-8	IC522	C-17	Q702	F-14
D61	E-8	IC523	C-16	Q703	E-13
D62	F-8	IC524	G-13	Q704	F-14
D63	F-8	IC525	G-15	Q705	E-14
D64	B-15	IC526	G-15	Q706	E-16
D65	B-15	IC527	H-20	Q707	E-16
D66	I-13	IC603	G-9	Q752	D-12
D67	K-5	IC801	G-18	Q753	D-12
D68	D-9	IC802	I-15	Q754	F-12
D69	D-8	IC805	I-18	Q755	F-12
D70	G-10	IC806	H-18	Q756	F-13
D71	B-19	IC807	I-12	Q757	E-12
D72	B-19	IC808	J-10	Q803	E-12
D73	F-14	IC809	G-17	Q831	E-18
D74	E-13	IC1001-A	D-26	Q832	E-18
D75	B-18	IC1001-B	J-26	Q841	F-19
D76	F-15	IC1002-A	D-27	Q842	J-7
D77	E-16	IC1002-B	J-27	Q871	J-16
D78	F-10	Q51	F-5	Q872	J-15
D79	C-19	Q52	F-7	Q874	J-17
D80	F-10	Q86	K-4	Q881	J-14
D81	B-18	Q111	H-4	Q882	J-14
D82	B-18	Q131	C-10	Q883	J-13
D83	B-18	Q132	C-10	Q884	J-13
D84	F-13	Q151	G-11	Q885	J-11
D85	F-13	Q161	G-2	Q893	J-10
D86	E-12	Q211	I-4	Q894	J-10
D87	F-13	Q231	C-11	Q895	J-18
D88	D-12	Q452	I-8	Q896	J-18
D89	H-17	Q251	H-10	Q897	J-16
D90	F-10	Q261	G-2	Q1091-A	B-27
D91	E-18	Q302	C-8	Q1091-B	H-27
D92	E-19	Q352	H-8		
D93	J-13	Q371	D-4		
D94	J-15	Q402	C-8		
D95	J-16	Q471	E-4		
D1001-A	E-33	Q523	C-13		
D1001-B	J-31	Q524	C-16		
D1091-A	B-27	Q527	C-15		
D1091-B	G-27	Q528	B-16		
IC51	D-3	Q543	G-12		
IC52	D-5	Q544	G-14		
IC53	H-2	Q547	H-14		
IC54	F-8	Q548	H-14		
IC55	H-3	Q549	H-14		
IC56	K-4	Q561	K-5		
IC57	K-4	Q562	K-5		
IC58	D-3	Q581	F-9		
IC59	G-3	Q582	F-9		
IC60	G-4	Q602	D-8		

Waveform

MAIN BOARD(1/2)



IC Block Diagrams

IC52, 58, 507, 523, 543

MC14052BF

IC71, 81 CXA1563M

IC601, 602 CXA1598M

IC60 TC9210P

IC603 MC14051BF

- B+: B+ Line
- B-: B- Line
- : adjustment for repair.
- : Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark: STOP
- (): REC
- △: internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note:

- All capacitors are in μ F unless otherwise noted. pF, μ uF 50VW or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

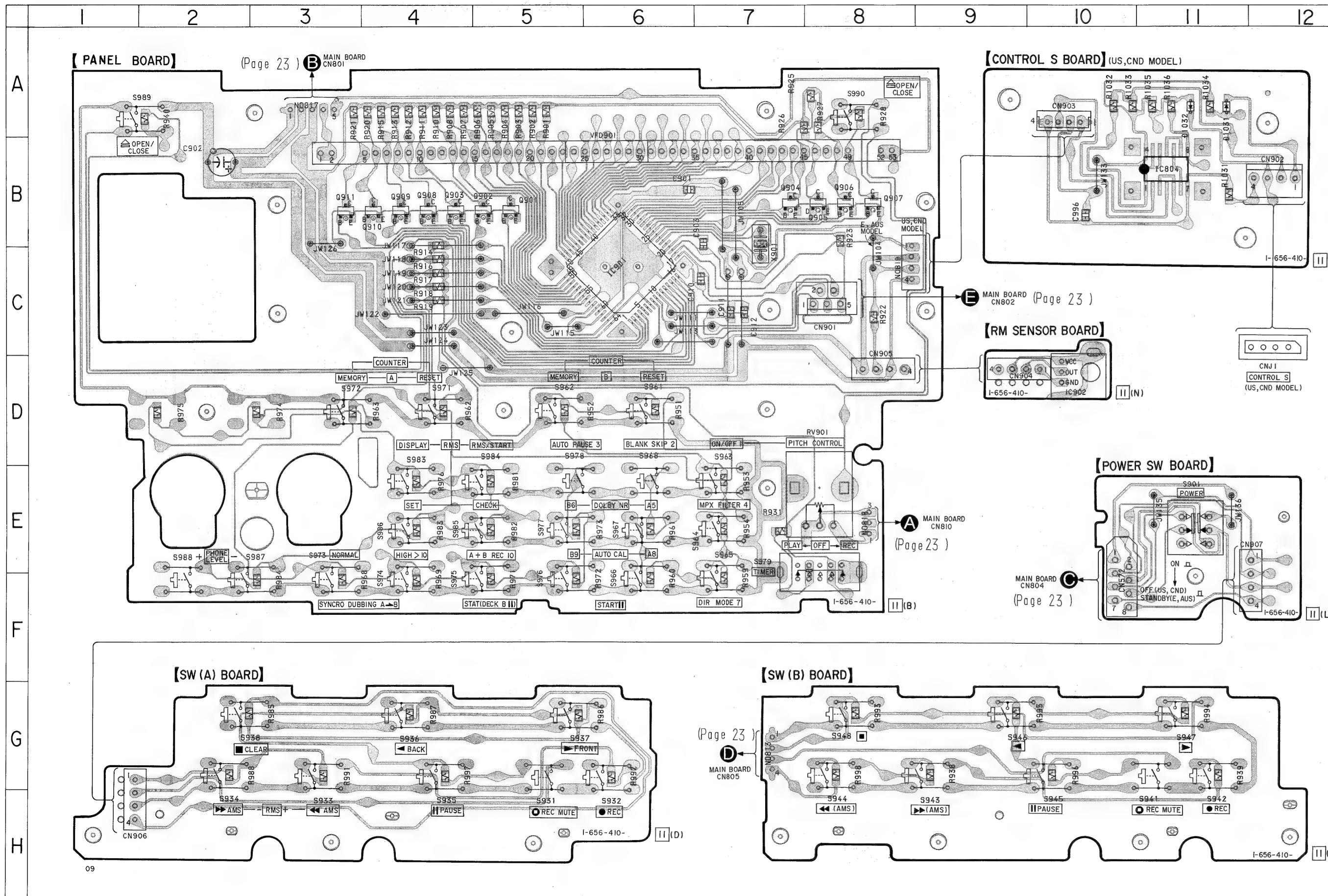
Note:

The components identified by mark □ or dotted line with mark □ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque □ sont critiques pour la sécurité. Remplacer que par une pièce portant le numéro spécifié.

4-7. PRINTED WIRING BOARD — PANEL BLOCK — (SW, DISPLAY)
• See page 12 for Circuit Boards Location.

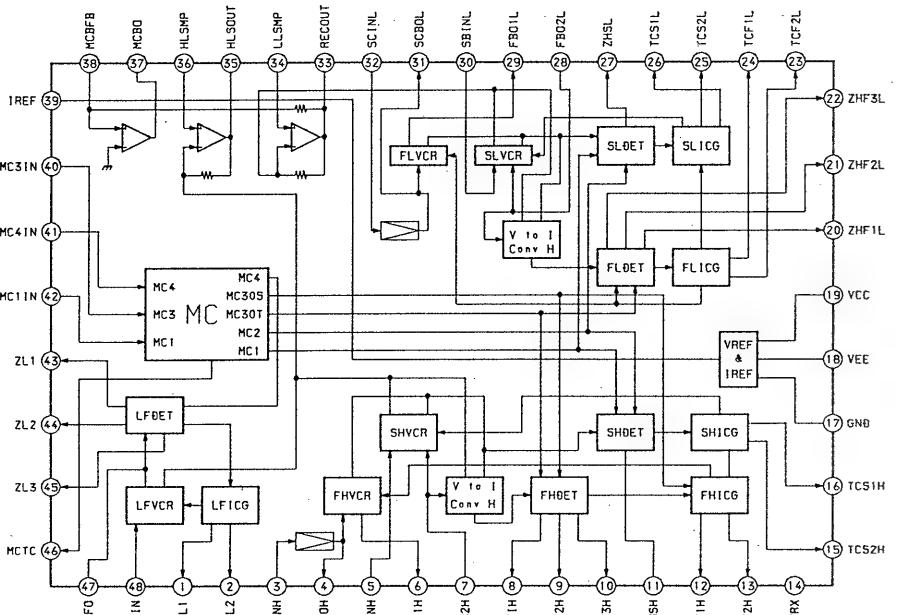


• Semiconductor Location	
Ref. No.	Location
D1031	A-11
D1032	A-11
IC804	B-11
IC901	C-6
IC902	D-10
Q901	B-5
Q902	B-5
Q903	B-4
Q904	B-7
Q905	B-8
Q906	B-8
Q907	B-8
Q908	B-4
Q909	B-4
Q910	B-4
Q911	B-3

Note:
 • : parts extracted from the component side.
 • : parts extracted from the conductor side.
 • : Pattern from the side which enable seeing.
Abbreviation
 CND : Canadian model.
 AUS : Australian model.

• IC Block Diagram

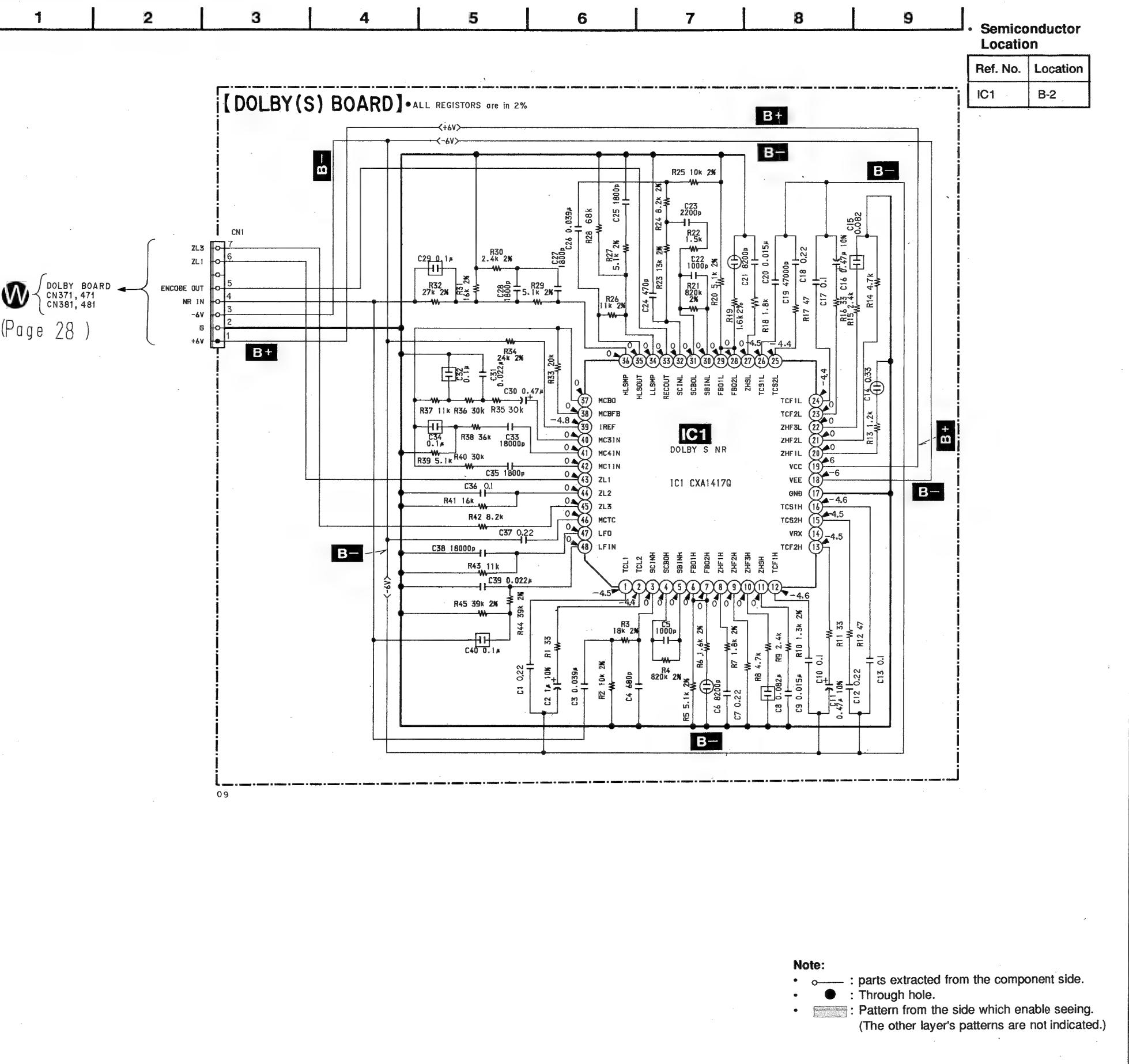
IC1 CXA1417Q



Note:

- All capacitors are in μF unless otherwise noted. pF ; μF 50V or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/10W or less unless otherwise specified.
- % : indicates tolerance.
- B+** : B+ Line
- B-** : B- Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions. no mark : STOP
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.

4-8. SCHEMATIC DIAGRAM — DOLBY S BLOCK —

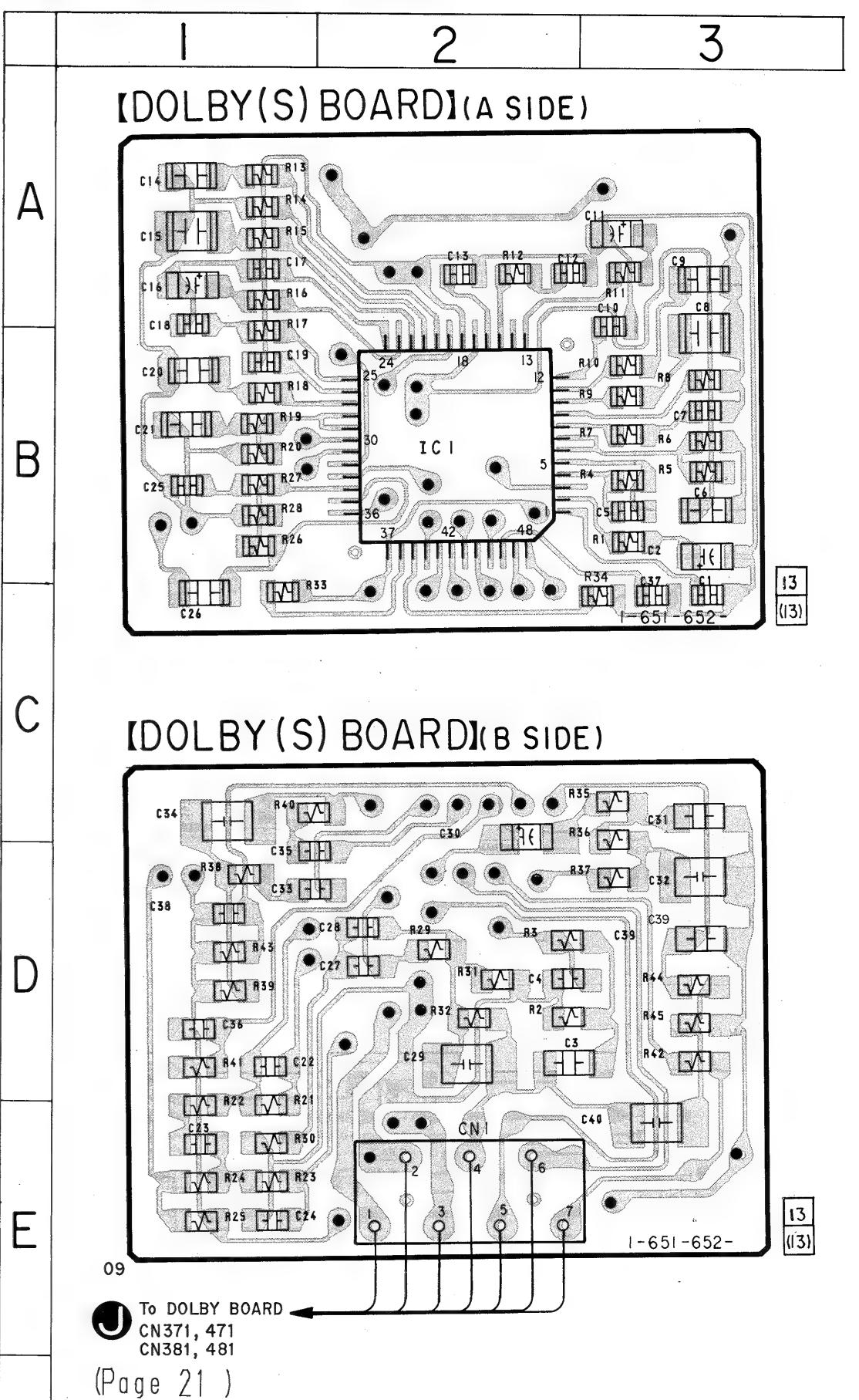


Note:

- : parts extracted from the component side.
- : Through hole.
- : Pattern from the side which enable seeing. (The other layer's patterns are not indicated.)

4-9. PRINTED WIRING BOARD — DOLBY S BLOCK —

• See page 12 for Circuit Boards Location.



SECTION 5

EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

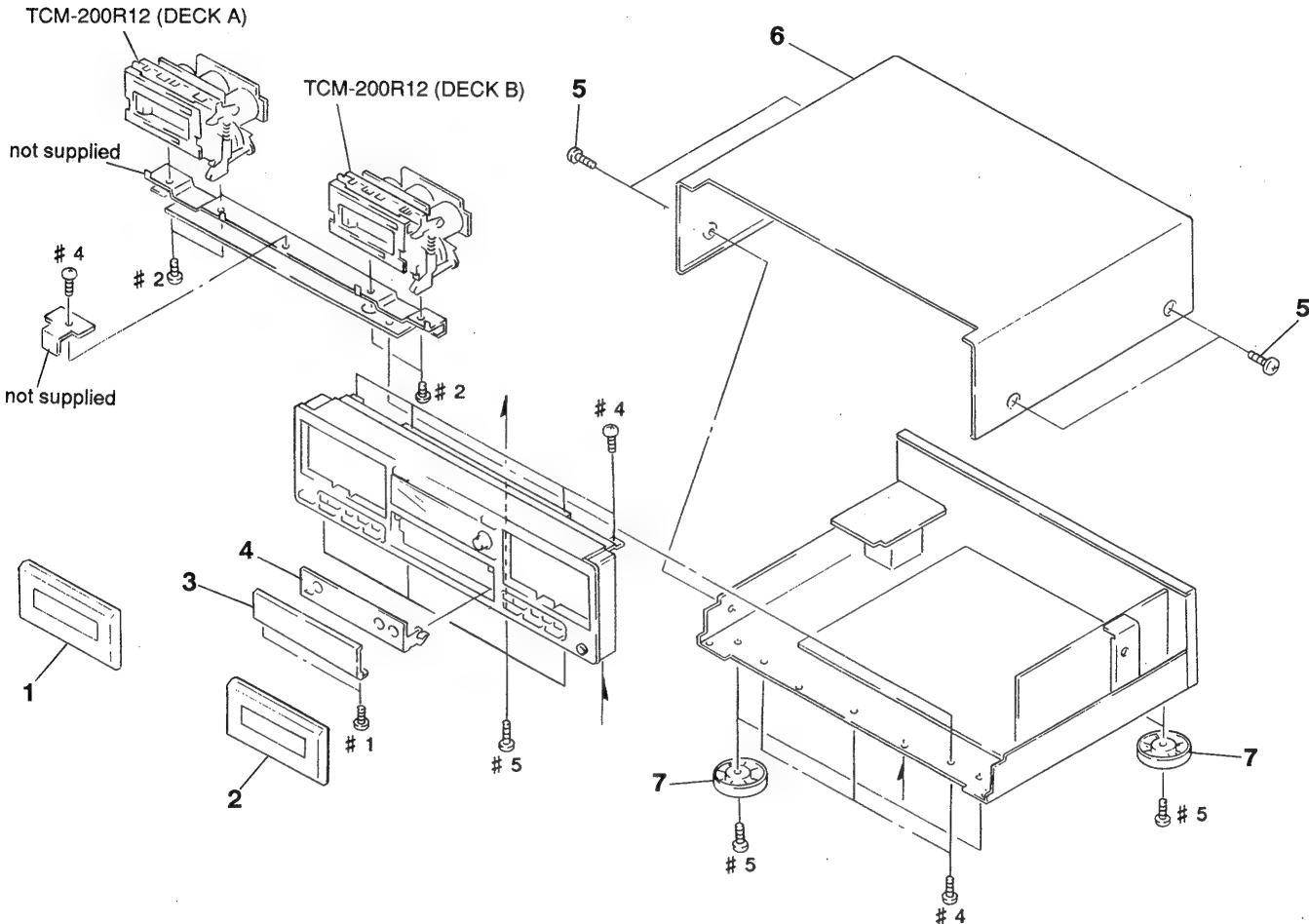
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

CND	: Canadian model
AUS	: Australian model

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. CASE SECTION

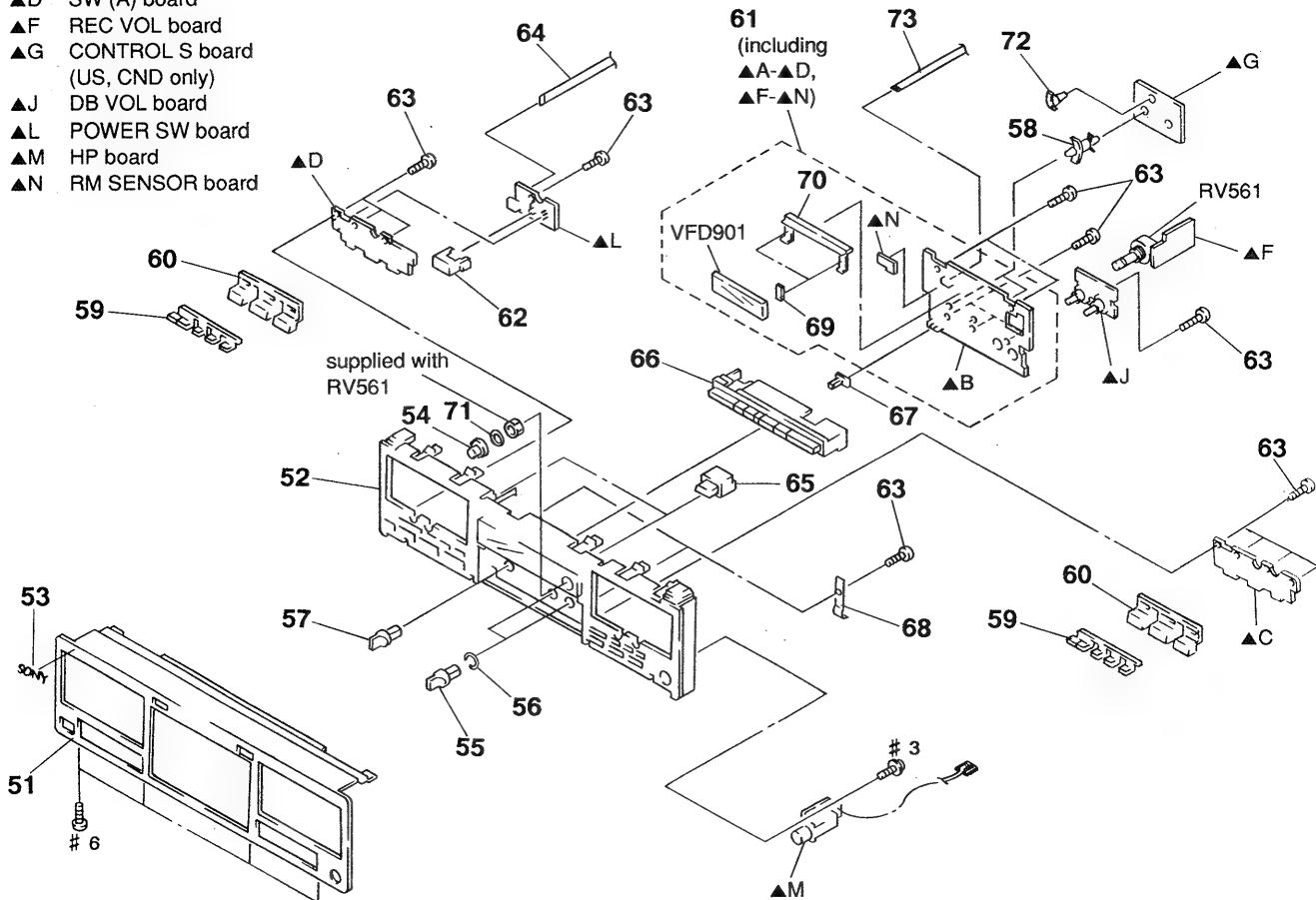


Ref. No.	Part No.	Description
1	X-3370-118-1	LID (A) ASSY, CASSETTE
2	X-3370-119-1	LID (B) ASSY, CASSETTE
3	3-923-143-01	PLATE, ORNAMENTAL
4	3-923-144-01	PLATE (BASE), ORNAMENTAL
5	3-704-366-01	SCREW (CASE) (M3X8)

Remark	Ref. No.	Part No.	Description	Remark
	6	3-919-386-21	CASE	
	7	4-956-885-01	FOOT (F58175S2W) (US, CND)	
	7	4-956-885-11	FOOT (F58175S2W) (E, AUS)	

5-2. FRONT PANEL SECTION

- ▲B PANEL board
- ▲C SW (B) board
- ▲D SW (A) board
- ▲F REC VOL board
- ▲G CONTROL S board (US, CND only)
- ▲J DB VOL board
- ▲L POWER SW board
- ▲M HP board
- ▲N RM SENSOR board

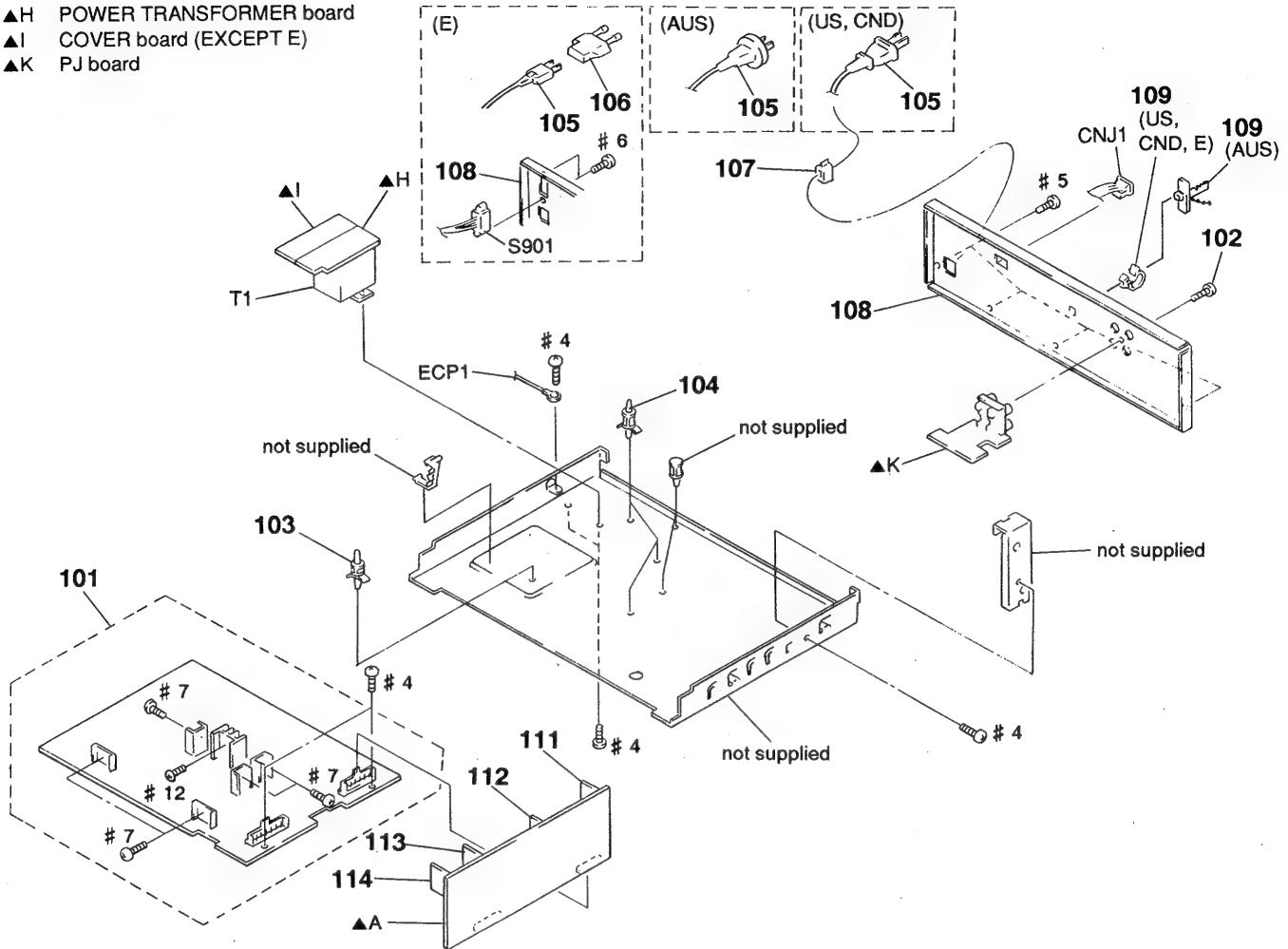


Ref. No.	Part No.	Description	Remark
51	3-923-145-01	PANEL, FRONT (US, CND)	
51	3-923-145-11	PANEL, FRONT (E, AUS)	
52	X-3370-120-1	PANEL (BASE) ASSY	
53	4-942-568-01	EMBLEM (NO. 5), SONY	
54	3-909-661-11	KNOB (REC)	
55	3-350-495-01	KNOB (VOL)	
56	3-356-957-01	SPRING	
57	3-380-950-01	KNOB (VOL)	
* 58	3-350-846-21	HOLDER, PCB (US, CND)	
59	3-923-133-01	BUTTON (F-R)	
60	3-923-134-01	BUTTON (S-P)	
* 61	A-2007-406-A	PANEL BOARD, COMPLETE (US, CND)	
* 61	A-2007-407-A	PANEL BOARD, COMPLETE (E)	
* 61	A-2007-408-A	PANEL BOARD, COMPLETE (AUS)	
62	3-354-932-01	BUTTON (POWER)	

Ref. No.	Part No.	Description	Remark
63	4-951-620-01	SCREW (2.6X8), +BVTP	
64	1-575-674-11	WIRE, FLAT TYPE (8 CORE)	
65	3-923-140-01	BUTTON (EJECT)	
66	3-923-146-01	BUTTON (COUNTER)	
67	4-924-444-01	KNOB (TIMER)	
68	3-378-283-01	SPRING (M)	
69	9-911-844-XX	CUSHION	
* 70	3-385-607-01	HOLDER, FL TUBE	
71	3-350-426-02	SPRING	
* 72	3-704-198-11	SUPPORT, PC (US, CND)	
73	1-575-663-31	WIRE, FLAT TYPE (5 CORE)	
RV561	1-223-867-11	RES, VAR, CARBON 50K/50K	
VFD901	1-517-415-11	INDICATOR TUBE, FLUORESCENT	

5-3. CHASSIS SECTION

- ▲A DOLBY board
- ▲H POWER TRANSFORMER board
- ▲I COVER board (EXCEPT E)
- ▲K PJ board



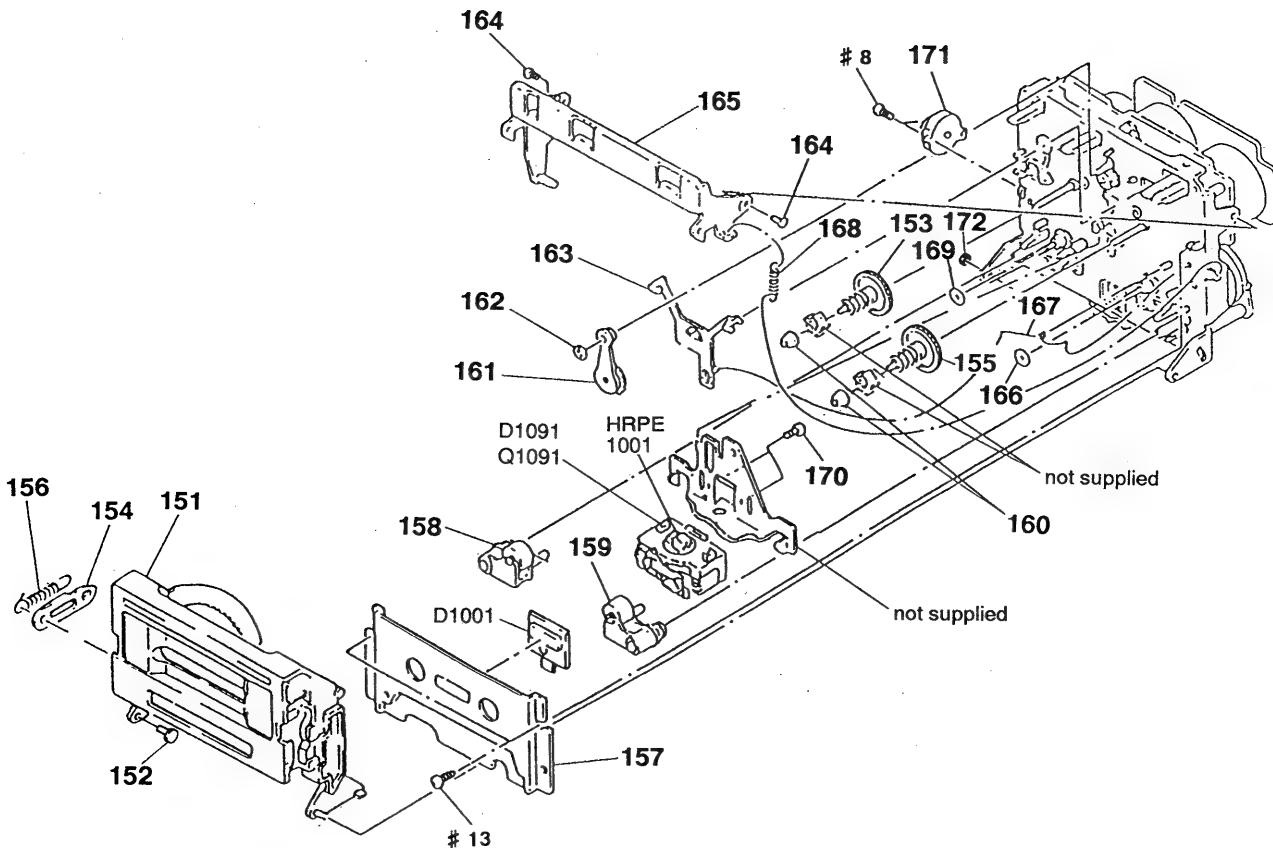
The components identified by mark  or dotted line with mark  are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

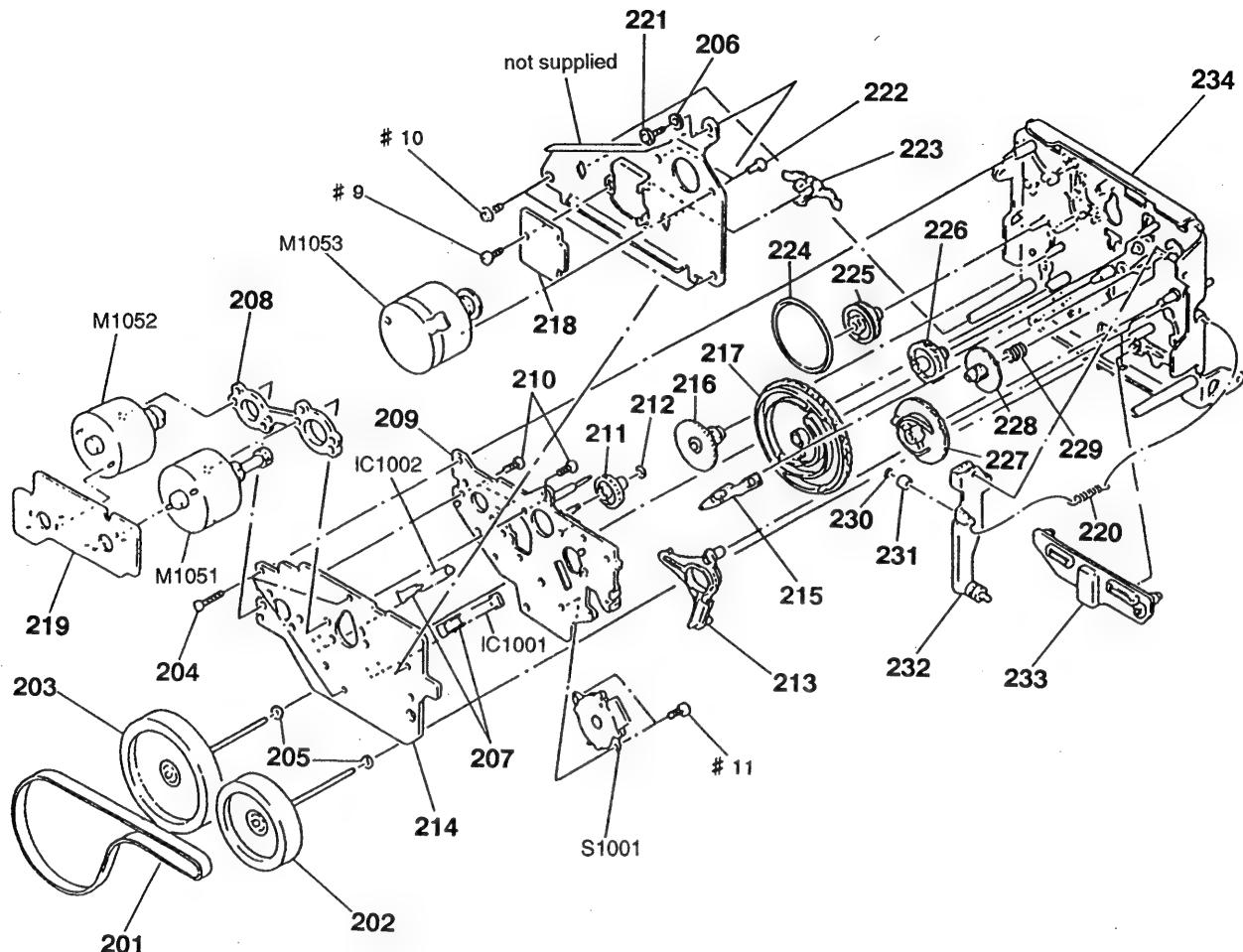
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 101	A-2007-405-A	MAIN BOARD, COMPLETE		* 109	4-949-235-01	HOOK (US, CND, E)	
102	3-704-515-01	SCREW (BV/RING)		109	4-956-370-02	BAND, PLUG FIXED (AUS)	
* 103	4-924-098-11	HOLDER, PC BOARD		* 111	A-2007-173-A	DOLBY (S) BOARD, COMPLETE (L-CH DECK-A)	
* 104	3-346-265-11	HOLDER, PC BOARD		* 112	A-2007-173-A	DOLBY (S) BOARD, COMPLETE (R-CH DECK-A)	
△105	1-551-188-XX	CORD, POWER (E)		* 113	A-2007-173-A	DOLBY (S) BOARD, COMPLETE (L-CH DECK-B)	
△105	1-590-836-11	CORD, POWER (US, CND)		* 114	A-2007-173-A	DOLBY (S) BOARD, COMPLETE (R-CH DECK-B)	
△105	1-696-845-11	CORD, POWER (AUS)		* CNJ1	1-558-350-21	CORD (WITH CONNECTOR) (CONTROL S IN)	(US, CND)
△106	1-569-007-11	ADAPTER, CONVERSION 2P (E)		ECP1	1-765-469-11	LEAD (WITH CONNECTOR)	
* 107	3-703-244-00	BUSHING (2104), CORD (US, CND, AUS)		△S901	1-570-307-11	SELECTOR, POWER VOLTAGE (E)	
* 107	3-703-571-11	BUSHING (S) (4516), CORD (E)		△T1	1-427-923-11	TRANSFORMER, POWER (AUS)	
* 108	3-923-147-01	PANEL, BACK (US, CND)		△T1	1-427-924-11	TRANSFORMER, POWER (US, CND)	
* 108	3-923-147-11	PANEL, BACK (E)		△T1	1-427-925-11	TRANSFORMER, POWER (E)	
* 108	3-923-147-21	PANEL, BACK (AUS)					

5-4. MECHANISM DECK SECTION-1 (TCM-200R12)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	X-3365-299-1	HOLDER (CD-C) ASSY, CASSETTE		* 165	X-3356-608-1	LEVER (LIFTER) ASSY	
152	3-378-341-01	SHAFT (L) (CASSETTE HOLDER)		166	3-356-713-01	WASHER	
153	X-3356-628-1	GEAR (S) ASSY		167	3-356-619-01	SPRING (B), TORSION	
* 154	3-356-717-01	LEVER (JOINT)		168	3-356-625-01	SPRING, TENSION	
155	X-3356-627-1	GEAR (T) ASSY		169	3-356-714-01	WASHER	
156	3-356-626-01	SPRING, TENSION		170	3-388-848-01	SCREW (P2X6) (B TIGHT)	
157	X-3356-613-1	PLATE ASSY, ORNAMENTAL		171	3-712-786-01	DAMPER, OIL	
158	X-3343-456-1	LEVER (PINCH R) ASSY		172	3-558-708-21	WASHER, STOPPER	
159	X-3343-455-1	LEVER (PINCH F) ASSY		D1001	8-719-980-85	DIODE SLF-325C	
160	3-362-308-01	CAP (REEL)		D1091	8-719-950-74	LED SLR314D-B	
161	X-3356-641-1	LEVER (FR2) ASSY		HRPE1001A-2003-722-A DECK ASSY, HEAD (REC/PB/ERASE)			
162	3-669-465-11	WASHER (1.5), STOPPER		Q1091 8-729-809-43 TRANSISTOR SPS-314B-BE			
163	3-356-614-01	SLIDER (BRAKE)					
164	3-356-601-11	SCREW, STEP					

**5-5. MECHANISM DECK SECTION-2
(TCM-200R12)**



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-356-604-01	BELT (CAPSTAN)		221	3-356-707-01	SCREW (+PTPWH 2X25)	
202	X-3356-642-1	FLYWHEEL (R FWD) ASSY		222	4-885-599-00	SCREW, FITTING, REINFORCEMENT	
203	X-3356-643-1	FLYWHEEL (R REV) ASSY		223	3-575-321-00	RETAINER, THRUST, CAPSTAN	
204	3-355-801-01	SCREW (BTP 2X18)		224	3-356-603-01	BELT (MODE)	
205	3-356-705-01	WASHER (CAPSTAN)		225	3-356-607-01	PULLEY (MODE)	
* 206	3-356-718-01	SPACER (THRUST RETAINER R)		226	3-356-703-01	GEAR (COMMUNICATION C)	
207	3-356-631-01	HOLDER (SENSOR)		227	3-356-616-01	GEAR (LOADING CAM)	
* 208	3-356-628-01	SPACER (MOTOR)		228	3-356-609-01	GEAR (LOADING)	
* 209	X-3356-602-1	BRACKET (MOTOR R) ASSY		229	3-356-605-01	SPRING, COMPRESSION	
210	3-363-804-01	SCREW (+P 2.6X6.5)		230	3-558-708-11	WASHER, STOPPER	
211	3-356-702-01	GEAR (COMMUNICATION B)		231	3-356-630-01	ROLLER (LOADING)	
212	3-669-465-01	WASHER (1.5), STOPPER		232	X-3356-606-1	LEVER (LOADING) ASSY	
213	3-356-613-01	LEVER (MODE)		233	3-356-612-01	SLIDER (REVERSE)	
* 214	1-632-740-11	MD BOARD		234	X-3356-634-1	CHASSIS (R2) COMPLETE ASSY, MECH	
215	3-356-617-01	LEVER (SELECTION)		IC1001	8-749-920-97	PHOTO REFLECTOR GP2S22B	
216	3-356-606-01	GEAR (MODE)		IC1002	8-749-920-97	PHOTO REFLECTOR GP2S22B	
217	3-356-615-01	GEAR (MODE CAM RR)		M1051	X-3356-638-1	MOTOR (REEL R) ASSY	
* 218	1-634-323-11	TRANSLATION BOARD		M1052	X-3356-604-1	MOTOR (ASSIST) ASSY	
* 219	1-632-741-21	REEL MOTOR BOARD		M1053	X-3356-605-1	MOTOR (CAPSTAN R) ASSY	
220	3-356-624-01	SPRING, TENSION		S1001	1-466-525-11	ENCODER, ROTARY	

DOLBY (S)

SECTION 6

ELECTRICAL PARTS LIST

NOTE:

The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- **RESISTORS**
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable

- SEMICONDUCTORS
In each case, u : μ , for example:
 $uA\dots \mu A\dots, uPA\dots: \mu PA\dots, uPB\dots: \mu PB\dots,$
 $uPC\dots: \mu PC\dots, uPD\dots: \mu PD\dots$
- CAPACITORS
 $uF: \mu F$
- COILS
 $uH: \mu H$
- Abbreviation
CND : Canadian model
AUS : Australian model

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark	
*	A-2007-173-A	DOLBY (S) BOARD, COMPLETE (L-CH DECK-A)		*****	C31	1-104-555-11	FILM CHIP	0.022uF	5%	16V
*	A-2007-173-A	DOLBY (S) BOARD, COMPLETE (L-CH DECK-B)		*****	C32	1-104-563-11	FILM CHIP	0.1uF	5%	16V
*	A-2007-173-A	DOLBY (S) BOARD, COMPLETE (R-CH DECK-A)		*****	C33	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
*	A-2007-173-A	DOLBY (S) BOARD, COMPLETE (R-CH DECK-B)		*****	C34	1-104-563-11	FILM CHIP	0.1uF	5%	16V
		< CAPACITOR >			C35	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V
		< CONNECTOR >			C36	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		< IC >			C37	1-164-222-11	CERAMIC CHIP	0.22uF		25V
		< RESISTOR >			C38	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
		< IC >			C39	1-104-555-11	FILM CHIP	0.022uF	5%	16V
		< RESISTOR >			C40	1-104-563-11	FILM CHIP	0.1uF	5%	16V
C1	1-164-222-11	CERAMIC CHIP	0.22uF	25V	CN1	1-695-092-11	SOCKET, CONNECTOR 7P			
C2	1-135-177-21	TANTALUM CHIP	1uF	20%						
C3	1-104-558-11	FILM CHIP	0.039uF	5%						
C4	1-163-007-11	CERAMIC CHIP	680PF	10%						
C5	1-163-009-11	CERAMIC CHIP	0.001uF	10%						
C6	1-164-717-11	CERAMIC CHIP	0.0082uF	5%						
C7	1-164-222-11	CERAMIC CHIP	0.22uF	25V						
C8	1-104-562-11	FILM CHIP	0.082uF	5%						
C9	1-104-553-11	FILM CHIP	0.015uF	5%						
C10	1-165-319-11	CERAMIC CHIP	0.1uF	50V						
C11	1-135-145-11	TANTALUM CHIP	0.47uF	10%						
C12	1-164-222-11	CERAMIC CHIP	0.22uF	25V						
C13	1-165-319-11	CERAMIC CHIP	0.1uF	50V						
C14	1-162-568-11	CERAMIC CHIP	0.33uF	10%						
C15	1-104-562-11	FILM CHIP	0.082uF	5%						
C16	1-135-145-11	TANTALUM CHIP	0.47uF	10%						
C17	1-165-319-11	CERAMIC CHIP	0.1uF	50V						
C18	1-164-222-11	CERAMIC CHIP	0.22uF	25V						
C19	1-163-035-00	CERAMIC CHIP	0.047uF	50V						
C20	1-104-553-11	FILM CHIP	0.015uF	5%						
C21	1-164-717-11	CERAMIC CHIP	0.0082uF	5%						
C22	1-163-009-11	CERAMIC CHIP	0.001uF	10%						
C23	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V					
C24	1-163-005-11	CERAMIC CHIP	470PF	10%	50V					
C25	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V					
C26	1-104-558-11	FILM CHIP	0.039uF	5%	16V					
C27	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V					
C28	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V					
C29	1-104-563-11	FILM CHIP	0.1uF	5%	16V					
C30	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V					
		< IC >			R1	1-216-615-11	METAL CHIP	33	0.5%	1/10W
		< RESISTOR >			R2	1-208-806-11	METAL GLAZE	10K	2%	1/10W
		< IC >			R3	1-208-812-11	METAL GLAZE	18K	2%	1/10W
		< IC >			R4	1-216-119-00	METAL CHIP	820K	5%	1/10W
		< RESISTOR >			R5	1-208-799-11	METAL GLAZE	5.1K	2%	1/10W
		< IC >			R6	1-208-787-11	METAL GLAZE	1.6K	2%	1/10W
		< IC >			R7	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
		< IC >			R8	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
		< IC >			R9	1-208-791-11	METAL GLAZE	2.4K	2%	1/10W
		< IC >			R10	1-216-052-00	METAL CHIP	1.3K	5%	1/10W
		< IC >			R11	1-216-615-11	METAL CHIP	33	0.5%	1/10W
		< IC >			R12	1-216-619-11	METAL CHIP	47	0.5%	1/10W
		< IC >			R13	1-208-784-11	METAL GLAZE	1.2K	2%	1/10W
		< IC >			R14	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
		< IC >			R15	1-208-791-11	METAL GLAZE	2.4K	2%	1/10W
		< IC >			R16	1-216-615-11	METAL CHIP	33	0.5%	1/10W
		< IC >			R17	1-216-619-11	METAL CHIP	47	0.5%	1/10W
		< IC >			R18	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
		< IC >			R19	1-208-787-11	METAL GLAZE	1.6K	2%	1/10W
		< IC >			R20	1-208-799-11	METAL GLAZE	5.1K	2%	1/10W
		< IC >			R21	1-216-119-00	METAL CHIP	820K	5%	1/10W
		< IC >			R22	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
		< IC >			R23	1-216-678-11	METAL CHIP	13K	0.5%	1/10W
		< IC >			R24	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W

DOLBY (S)**MAIN**

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark	
R25	1-208-806-11	METAL GLAZE	10K	2%	1/10W		C152	1-162-285-31	CERAMIC	180PF	10%	50V
R26	1-216-676-11	METAL CHIP	11K	0.5%	1/10W		C153	1-130-469-00	MYLAR	680PF	5%	50V
R27	1-208-799-11	METAL GLAZE	5.1K	2%	1/10W		C154	1-136-157-00	FILM	0.022uF	5%	50V
R28	1-216-695-11	METAL CHIP	68K	0.5%	1/10W		C155	1-124-273-00	ELECT	3.3uF	20%	50V
R29	1-208-799-11	METAL GLAZE	5.1K	2%	1/10W		C156	1-136-158-00	FILM	0.027uF	5%	50V
R30	1-208-791-11	METAL GLAZE	2.4K	2%	1/10W		C191	1-124-925-11	ELECT	2.2uF	20%	100V
R31	1-208-811-11	METAL GLAZE	16K	2%	1/10W		C221	1-136-153-00	FILM	0.01uF	5%	50V
R32	1-216-685-11	METAL CHIP	27K	0.5%	1/10W		C222	1-136-157-00	FILM	0.022uF	5%	50V
R33	1-208-813-11	METAL GLAZE	20K	2%	1/10W		C223	1-136-161-00	FILM	0.047uF	5%	50V
R34	1-216-684-11	METAL CHIP	24K	0.5%	1/10W		C224	1-136-272-00	FILM	68PF	5%	630V
R35	1-208-817-11	METAL GLAZE	30K	2%	1/10W		C225	1-136-433-11	FILM	100PF	5%	630V
R36	1-208-817-11	METAL GLAZE	30K	2%	1/10W		C226	1-130-468-00	MYLAR	560PF	5%	50V
R37	1-216-676-11	METAL CHIP	11K	0.5%	1/10W		C231	1-136-935-11	FILM	22PF	5%	630V
R38	1-208-819-11	METAL GLAZE	36K	2%	1/10W		C232	1-162-285-31	CERAMIC	180PF	10%	50V
R39	1-208-799-11	METAL GLAZE	5.1K	2%	1/10W		C233	1-130-469-00	MYLAR	680PF	5%	50V
R40	1-208-817-11	METAL GLAZE	30K	2%	1/10W		C234	1-136-157-00	FILM	0.022uF	5%	50V
R41	1-208-811-11	METAL GLAZE	16K	2%	1/10W		C235	1-124-273-00	ELECT	3.3uF	20%	50V
R42	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W		C236	1-136-158-00	FILM	0.027uF	5%	50V
R43	1-216-676-11	METAL CHIP	11K	0.5%	1/10W		C237	1-110-341-11	MYLAR	330PF	5%	50V
R44	1-216-689-11	METAL CHIP	39K	0.5%	1/10W		C241	1-136-153-00	FILM	0.01uF	5%	50V
R45	1-216-689-11	METAL CHIP	39K	0.5%	1/10W		C242	1-136-157-00	FILM	0.022uF	5%	50V
*	A-2007-405-A MAIN BOARD, COMPLETE						C243	1-136-161-00	FILM	0.047uF	5%	50V
	*****						C244	1-136-272-00	FILM	68PF	5%	630V
							C245	1-136-433-11	FILM	100PF	5%	630V
							C246	1-130-468-00	MYLAR	560PF	5%	50V
	*****						C251	1-136-935-11	FILM	22PF	5%	630V
	7-685-646-79 SCREW +BVTP 3X8 TYPE2 IT-3						C252	1-162-285-31	CERAMIC	180PF	10%	50V
	7-682-548-04 SCREW +BVTT 3X8 (S)						C253	1-130-469-00	MYLAR	680PF	5%	50V
	< CAPACITOR >						C254	1-136-157-00	FILM	0.022uF	5%	50V
							C255	1-124-273-00	ELECT	3.3uF	20%	50V
C121	1-136-153-00	FILM	0.01uF	5%	50V		C256	1-136-158-00	FILM	0.027uF	5%	50V
C122	1-136-157-00	FILM	0.022uF	5%	50V		C291	1-124-925-11	ELECT	2.2uF	20%	100V
C123	1-136-161-00	FILM	0.047uF	5%	50V		C303	1-126-963-11	ELECT	4.7uF	20%	50V
C124	1-136-272-00	FILM	68PF	5%	630V		C304	1-126-963-11	ELECT	4.7uF	20%	50V
C125	1-136-433-11	FILM	100PF	5%	630V		C305	1-130-475-00	MYLAR	0.0022uF	5%	50V
C126	1-130-468-00	MYLAR	560PF	5%	50V		C307	1-136-172-00	FILM	0.39uF	5%	50V
C131	1-136-935-11	FILM	22PF	5%	630V		C353	1-126-963-11	ELECT	4.7uF	20%	50V
C132	1-162-285-31	CERAMIC	180PF	10%	50V		C354	1-126-963-11	ELECT	4.7uF	20%	50V
C133	1-130-469-00	MYLAR	680PF	5%	50V		C355	1-130-475-00	MYLAR	0.0022uF	5%	50V
C134	1-136-157-00	FILM	0.022uF	5%	50V		C357	1-136-172-00	FILM	0.39uF	5%	50V
C135	1-124-273-00	ELECT	3.3uF	20%	50V		C403	1-126-963-11	ELECT	4.7uF	20%	50V
C136	1-136-158-00	FILM	0.027uF	5%	50V		C404	1-126-963-11	ELECT	4.7uF	20%	50V
C137	1-110-341-11	MYLAR	330PF	5%	50V		C405	1-130-475-00	MYLAR	0.0022uF	5%	50V
C141	1-136-153-00	FILM	0.01uF	5%	50V		C407	1-136-172-00	FILM	0.39uF	5%	50V
C142	1-136-157-00	FILM	0.022uF	5%	50V		C453	1-126-963-11	ELECT	4.7uF	20%	50V
C143	1-136-161-00	FILM	0.047uF	5%	50V		C454	1-126-963-11	ELECT	4.7uF	20%	50V
C144	1-136-272-00	FILM	68PF	5%	630V		C455	1-130-475-00	MYLAR	0.0022uF	5%	50V
C145	1-136-433-11	FILM	100PF	5%	630V		C457	1-136-172-00	FILM	0.39uF	5%	50V
C146	1-130-468-00	MYLAR	560PF	5%	50V		C521	1-124-925-11	ELECT	2.2uF	20%	100V
C151	1-136-935-11	FILM	22PF	5%	630V		C522	1-124-902-00	ELECT	0.47uF	20%	50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark			
C523	1-136-230-00	FILM	0.0022uF 5%	100V	C802	1-164-159-11	CERAMIC	0.1uF		
C524	1-136-230-00	FILM	0.0022uF 5%	100V	C803	1-124-925-11	ELECT	2.2uF 20%		
C525	1-130-856-00	FILM	0.0068uF 5%	100V	C804	1-126-963-11	ELECT	4.7uF 20%		
C526	1-124-907-11	ELECT	10uF 20%	50V	C805	1-124-443-00	ELECT	100uF 20%		
C527	1-136-558-11	FILM	0.0039uF 5%	630V	C806	1-164-159-11	CERAMIC	0.1uF		
C528	1-124-120-11	ELECT	220uF 20%	25V	C807	1-164-159-11	CERAMIC	0.1uF		
C529	1-104-664-11	ELECT	47uF 20%	16V	C808	1-124-443-00	ELECT	100uF 20%		
C530	1-107-585-11	CERAMIC	5PF 0.25PF	500V	C810	1-164-159-11	CERAMIC	0.1uF		
C535	1-124-472-11	ELECT	470uF 20%	10V	C811	1-164-159-11	CERAMIC	0.1uF		
C536	1-124-472-11	ELECT	470uF 20%	10V	C817	1-164-159-11	CERAMIC	0.1uF		
C541	1-124-925-11	ELECT	2.2uF 20%	100V	C818	1-162-302-11	CERAMIC	0.0022uF 20%		
C542	1-124-902-00	ELECT	0.47uF 20%	50V	C819	1-164-159-11	CERAMIC	0.1uF		
C543	1-136-230-00	FILM	0.0022uF 5%	100V	C820	1-162-294-31	CERAMIC	0.001uF 10%		
C544	1-136-230-00	FILM	0.0022uF 5%	100V	C821	1-162-294-31	CERAMIC	0.001uF 10%		
C545	1-130-856-00	FILM	0.0068uF 5%	100V	C824	1-162-294-31	CERAMIC	0.001uF 10%		
C546	1-124-907-11	ELECT	10uF 20%	50V	C831	1-126-963-11	ELECT	4.7uF 20%		
C547	1-136-558-11	FILM	0.0039uF 5%	630V	C832	1-104-664-11	ELECT	47uF 20%		
C548	1-124-120-11	ELECT	220uF 20%	25V	C833	1-130-479-00	MYLAR	0.0047uF 5%		
C549	1-104-664-11	ELECT	47uF 20%	16V	C841	1-126-963-11	ELECT	4.7uF 20%		
C550	1-107-585-11	CERAMIC	5PF 0.25PF	500V	C842	1-104-664-11	ELECT	47uF 20%		
C555	1-124-472-11	ELECT	470uF 20%	10V	C843	1-130-479-00	MYLAR	0.0047uF 5%		
C556	1-124-472-11	ELECT	470uF 20%	10V	C851	1-124-907-11	ELECT	10uF 20%		
C581	1-124-925-11	ELECT	2.2uF 20%	100V	C871	1-164-159-11	CERAMIC	0.1uF		
C582	1-162-217-31	CERAMIC	56PF 5%	50V	C872	1-164-159-11	CERAMIC	0.1uF		
C583	1-136-157-00	FILM	0.022uF 5%	50V	C881	1-164-159-11	CERAMIC	0.1uF		
C585	1-162-286-31	CERAMIC	220PF 10%	50V	C882	1-164-159-11	CERAMIC	0.1uF		
C586	1-124-925-11	ELECT	2.2uF 20%	100V	C898	1-124-443-00	ELECT	100uF 20%		
C587	1-124-925-11	ELECT	2.2uF 20%	100V	C899	1-164-159-11	CERAMIC	0.1uF		
C601	1-124-903-11	ELECT	1uF 20%	50V	< CONNECTOR >					
C651	1-124-903-11	ELECT	1uF 20%	50V	< CONNECTOR >					
C701	1-126-963-11	ELECT	4.7uF 20%	50V	* CN531	1-564-512-11	PLUG, CONNECTOR 9P			
C702	1-124-772-11	ELECT	10000uF 20%	25V	CN701	1-766-272-11	PIN, CONNECTOR (PC BOARD) 10P			
C703	1-104-664-11	ELECT	47uF 20%	16V	* CN801	1-564-339-61	PIN, CONNECTOR 5P			
C704	1-126-937-11	ELECT	4700uF 20%	16V	CN802	1-750-410-11	CONNECTOR, FFC/FPC 5P			
C705	1-126-937-11	ELECT	4700uF 20%	16V	CN804	1-750-413-11	CONNECTOR, FFC/FPC 8P			
C706	1-124-443-00	ELECT	100uF 20%	10V	* CN805	1-564-338-71	PIN, CONNECTOR 4P			
C707	1-126-916-11	ELECT	10000uF 20%	6.3V	CN810	1-506-468-11	PIN, CONNECTOR 3P			
C708	1-124-911-11	ELECT	220uF 20%	50V	* CN811	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
C709	1-124-910-11	ELECT	47uF 20%	50V	CNP601	1-764-821-11	CONNECTOR, BOARD TO BOARD 15P			
C710	1-126-963-11	ELECT	4.7uF 20%	50V	CNP602	1-764-821-11	CONNECTOR, BOARD TO BOARD 15P			
C751	1-126-937-11	ELECT	4700uF 20%	16V	< COMPOSITION CIRCUIT BLOCK >					
C752	1-126-937-11	ELECT	4700uF 20%	16V	CP521	1-232-946-11	COMPOSITION CIRCUIT BLOCK			
C753	1-124-120-11	ELECT	220uF 20%	25V	CP541	1-232-946-11	COMPOSITION CIRCUIT BLOCK			
C754	1-124-120-11	ELECT	220uF 20%	25V	CP801	1-239-059-11	COMPOSITION CIRCUIT BLOCK			
C755	1-124-910-11	ELECT	47uF 20%	50V	CP802	1-233-199-11	COMPOSITION CIRCUIT BLOCK			
C756	1-162-286-31	CERAMIC	220PF 10%	50V	CP803	1-233-347-11	CIRCUIT BLOCK, COMPOSITION			
C757	1-162-286-31	CERAMIC	220PF 10%	50V	CP804	1-233-199-11	COMPOSITION CIRCUIT BLOCK			
C758	1-124-473-11	ELECT	1000uF 20%	10V						
C759	1-124-473-11	ELECT	1000uF 20%	10V						
C801	1-164-159-11	CERAMIC	0.1uF	50V						

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark				
< DIODE >											
D191	8-719-987-63	DIODE	1N4148M	IC502	8-759-100-96	IC	uPC4558G2				
D192	8-719-987-63	DIODE	1N4148M	IC503	8-759-602-01	IC	M5220P				
D193	8-719-933-33	DIODE	HZS6A1L	IC504	8-759-602-01	IC	M5220P				
D291	8-719-987-63	DIODE	1N4148M	IC506	8-759-300-71	IC	HD14053BFP				
D292	8-719-987-63	DIODE	1N4148M	IC507	8-759-009-06	IC	MC14052BF				
D293	8-719-933-33	DIODE	HZS6A1L	IC508	8-759-100-96	IC	uPC4558G2				
D521	8-719-987-63	DIODE	1N4148M	IC521	8-759-106-56	IC	uPC1297CA				
D522	8-719-987-63	DIODE	1N4148M	IC522	8-759-032-11	IC	MC74HC04AF				
D541	8-719-987-63	DIODE	1N4148M	IC523	8-759-009-06	IC	MC14052BF				
D542	8-719-987-63	DIODE	1N4148M	IC541	8-759-106-56	IC	uPC1297CA				
D601	8-719-987-63	DIODE	1N4148M	IC542	8-759-032-11	IC	MC74HC04AF				
D602	8-719-987-63	DIODE	1N4148M	IC543	8-759-009-06	IC	MC14052BF				
D651	8-719-987-63	DIODE	1N4148M	IC601	8-752-072-16	IC	CXA1598M-T6				
D652	8-719-987-63	DIODE	1N4148M	IC602	8-752-072-16	IC	CXA1598M-T6				
D701	8-719-200-77	DIODE	10E2N	IC603	8-759-009-05	IC	MC14051BF				
D702	8-719-500-36	DIODE	D2SB20	IC801	8-759-337-49	IC	uPD78043AGF-023-3B9				
D703	8-719-987-63	DIODE	1N4148M	IC802	8-759-337-50	IC	M38002M2-185FP				
D704	8-719-001-54	DIODE	UZL-11H2	IC805	8-759-973-95	IC	BA6219B				
D705	8-719-200-77	DIODE	10E2N	IC806	8-759-822-09	IC	LB1641				
D706	8-719-933-41	DIODE	HZS6C3L	IC807	8-759-973-95	IC	BA6219B				
D707	8-719-987-63	DIODE	1N4148M	IC808	8-759-822-09	IC	LB1641				
D708	8-719-933-38	DIODE	HZS6B3L	IC809	8-759-165-82	IC	PST600E-T				
D709	8-719-987-63	DIODE	1N4148M	IC810	8-759-248-67	IC	AT24C01-10SC				
D751	8-719-200-77	DIODE	10E2N	< COIL >							
D752	8-719-200-77	DIODE	10E2N	L131	1-410-780-11	INDUCTOR	27mH				
D753	8-719-200-77	DIODE	10E2N	L151	1-410-780-11	INDUCTOR	27mH				
D754	8-719-200-77	DIODE	10E2N	L231	1-410-780-11	INDUCTOR	27mH				
D755	8-719-987-63	DIODE	1N4148M	L251	1-410-780-11	INDUCTOR	27mH				
D756	8-719-987-63	DIODE	1N4148M	< TRANSISTOR >							
D757	8-719-933-33	DIODE	HZS6A1L	Q131	8-729-620-05	TRANSISTOR	2SC2603-EF				
D758	8-719-987-63	DIODE	1N4148M	Q132	8-729-620-05	TRANSISTOR	2SC2603-EF				
D759	8-719-933-33	DIODE	HZS6A1L	Q151	8-729-620-05	TRANSISTOR	2SC2603-EF				
D801	8-719-987-63	DIODE	1N4148M	Q231	8-729-620-05	TRANSISTOR	2SC2603-EF				
D802	8-719-987-63	DIODE	1N4148M	Q232	8-729-620-05	TRANSISTOR	2SC2603-EF				
D831	8-719-987-63	DIODE	1N4148M	Q251	8-729-620-05	TRANSISTOR	2SC2603-EF				
D841	8-719-987-63	DIODE	1N4148M	Q302	8-729-620-05	TRANSISTOR	2SC2603-EF				
D851	8-719-987-63	DIODE	1N4148M	Q352	8-729-620-05	TRANSISTOR	2SC2603-EF				
D891	8-719-987-63	DIODE	1N4148M	Q402	8-729-620-05	TRANSISTOR	2SC2603-EF				
D892	8-719-987-63	DIODE	1N4148M	Q452	8-729-620-05	TRANSISTOR	2SC2603-EF				
D893	8-719-987-63	DIODE	1N4148M	Q523	8-729-900-80	TRANSISTOR	DTC114ES				
< HEAT SINK >											
* HS705	3-309-144-21	HEAT SINK (Q705)		Q524	8-729-900-89	TRANSISTOR	DTC144ES				
* HS752	4-880-403-11	HEAT SINK (Q752)		Q527	8-729-119-76	TRANSISTOR	2SA1175-HFE				
* HS755	4-880-403-11	HEAT SINK (Q755)		Q528	8-729-142-46	TRANSISTOR	2SC2001-LK				
* HS805	3-356-925-01	HEAT SINK (IC805)		Q529	8-729-142-46	TRANSISTOR	2SC2001-LK				
* HS807	3-356-925-01	HEAT SINK (IC807)		Q543	8-729-900-80	TRANSISTOR	DTC114ES				
				Q544	8-729-900-89	TRANSISTOR	DTC144ES				
				Q547	8-729-119-76	TRANSISTOR	2SA1175-HFE				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q548	8-729-142-46	TRANSISTOR	2SC2001-LK				< RESISTOR >
Q549	8-729-142-46	TRANSISTOR	2SC2001-LK				
Q581	8-729-900-89	TRANSISTOR	DTC144ES	R121	1-249-429-11	CARBON	10K 5% 1/4W
Q602	8-729-900-89	TRANSISTOR	DTC144ES	R122	1-249-435-11	CARBON	33K 5% 1/4W
Q603	8-729-900-89	TRANSISTOR	DTC144ES	△R123	1-219-153-11	FUSIBLE	10 5% 1/4W F
Q604	8-729-620-05	TRANSISTOR	2SC2603-EF	R124	1-247-883-00	CARBON	150K 5% 1/4W
Q605	8-729-900-89	TRANSISTOR	DTC144ES	R131	1-249-428-11	CARBON	8.2K 5% 1/4W F
Q606	8-729-900-89	TRANSISTOR	DTC144ES	R132	1-249-433-11	CARBON	22K 5% 1/4W
Q651	8-729-900-89	TRANSISTOR	DTC144ES	R133	1-249-403-11	CARBON	68 5% 1/4W F
Q652	8-729-900-89	TRANSISTOR	DTC144ES	R134	1-247-882-11	CARBON	130K 5% 1/4W
Q653	8-729-900-89	TRANSISTOR	DTC144ES	R135	1-249-426-11	CARBON	5.6K 5% 1/4W
Q654	8-729-900-89	TRANSISTOR	DTC144ES	R136	1-249-420-11	CARBON	1.8K 5% 1/4W F
Q701	8-729-620-05	TRANSISTOR	2SC2603-EF	R137	1-247-840-00	CARBON	2.4K 5% 1/4W
Q702	8-729-141-83	TRANSISTOR	2SB1094-LK	R139	1-249-425-11	CARBON	4.7K 5% 1/4W F
Q703	8-729-141-30	TRANSISTOR	2SC3623A-LK	R140	1-249-421-11	CARBON	2.2K 5% 1/4W F
Q704	8-729-620-05	TRANSISTOR	2SC2603-EF	R141	1-249-429-11	CARBON	10K 5% 1/4W
Q705	8-729-019-01	TRANSISTOR	2SD2394-EF	R142	1-249-435-11	CARBON	33K 5% 1/4W
Q706	8-729-119-76	TRANSISTOR	2SA1175-HFE	R143	1-219-153-11	FUSIBLE	10 5% 1/4W F
Q707	8-729-140-04	TRANSISTOR	2SB1116A-L	R144	1-247-883-00	CARBON	150K 5% 1/4W
Q751	8-729-620-05	TRANSISTOR	2SC2603-EF	R151	1-249-428-11	CARBON	8.2K 5% 1/4W F
Q752	8-729-141-83	TRANSISTOR	2SB1094-LK	R152	1-249-433-11	CARBON	22K 5% 1/4W
Q753	8-729-620-05	TRANSISTOR	2SC2603-EF	R153	1-249-403-11	CARBON	68 5% 1/4W F
Q754	8-729-119-76	TRANSISTOR	2SA1175-HFE	R154	1-247-882-11	CARBON	130K 5% 1/4W
Q755	8-729-209-15	TRANSISTOR	2SD2012	R155	1-249-426-11	CARBON	5.6K 5% 1/4W
Q756	8-729-119-76	TRANSISTOR	2SA1175-HFE	R156	1-249-420-11	CARBON	1.8K 5% 1/4W F
Q757	8-729-119-76	TRANSISTOR	2SA1175-HFE	R157	1-247-840-00	CARBON	2.4K 5% 1/4W
Q803	8-729-900-89	TRANSISTOR	DTC144ES	R159	1-249-425-11	CARBON	4.7K 5% 1/4W F
Q804	8-729-119-76	TRANSISTOR	2SA1175-HFE	R160	1-249-421-11	CARBON	2.2K 5% 1/4W F
Q806	8-729-900-65	TRANSISTOR	DTA144ES	R191	1-247-874-11	CARBON	62K 5% 1/4W
Q831	8-729-620-05	TRANSISTOR	2SC2603-EF	R192	1-249-410-11	CARBON	270 5% 1/4W F
Q832	8-729-620-05	TRANSISTOR	2SC2603-EF	R193	1-249-417-11	CARBON	1K 5% 1/4W F
Q841	8-729-620-05	TRANSISTOR	2SC2603-EF	R194	1-247-807-31	CARBON	100 5% 1/4W
Q842	8-729-620-05	TRANSISTOR	2SC2603-EF	R221	1-249-429-11	CARBON	10K 5% 1/4W
Q871	8-729-900-65	TRANSISTOR	DTA144ES	R222	1-249-435-11	CARBON	33K 5% 1/4W
Q872	8-729-900-89	TRANSISTOR	DTC144ES	△R223	1-219-153-11	FUSIBLE	10 5% 1/4W F
Q873	8-729-900-80	TRANSISTOR	DTC114ES	R224	1-247-883-00	CARBON	150K 5% 1/4W
Q874	8-729-900-80	TRANSISTOR	DTC114ES	R231	1-249-428-11	CARBON	8.2K 5% 1/4W F
Q875	8-729-900-80	TRANSISTOR	DTC114ES	R232	1-249-433-11	CARBON	22K 5% 1/4W
Q876	8-729-900-65	TRANSISTOR	DTA144ES	R233	1-249-403-11	CARBON	68 5% 1/4W F
Q877	8-729-900-89	TRANSISTOR	DTC144ES	R234	1-247-882-11	CARBON	130K 5% 1/4W
Q881	8-729-900-65	TRANSISTOR	DTA144ES	R235	1-249-426-11	CARBON	5.6K 5% 1/4W
Q882	8-729-900-89	TRANSISTOR	DTC144ES	R236	1-249-420-11	CARBON	1.8K 5% 1/4W F
Q883	8-729-900-80	TRANSISTOR	DTC114ES	R237	1-247-840-00	CARBON	2.4K 5% 1/4W
Q884	8-729-900-80	TRANSISTOR	DTC114ES	R239	1-249-425-11	CARBON	4.7K 5% 1/4W F
Q885	8-729-900-80	TRANSISTOR	DTC114ES	R240	1-249-421-11	CARBON	2.2K 5% 1/4W F
Q893	8-729-900-80	TRANSISTOR	DTC114ES	R241	1-249-429-11	CARBON	10K 5% 1/4W
Q894	8-729-801-84	TRANSISTOR	2SB1013-4	R242	1-249-435-11	CARBON	33K 5% 1/4W
Q895	8-729-801-84	TRANSISTOR	2SB1013-4	R243	1-219-153-11	FUSIBLE	10 5% 1/4W F
Q973	8-729-900-65	TRANSISTOR	DTA144ES	R244	1-247-883-00	CARBON	150K 5% 1/4W
Q974	8-729-900-89	TRANSISTOR	DTC144ES	R251	1-249-428-11	CARBON	8.2K 5% 1/4W F
				R252	1-249-433-11	CARBON	22K 5% 1/4W

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R253	1-249-403-11	CARBON	68	5%	1/4W F	R552	1-249-389-11	CARBON	4.7	5%	1/4W F
R254	1-247-882-11	CARBON	130K	5%	1/4W	R571	1-249-434-11	CARBON	27K	5%	1/4W
R255	1-249-426-11	CARBON	5.6K	5%	1/4W	R572	1-249-434-11	CARBON	27K	5%	1/4W
R256	1-249-420-11	CARBON	1.8K	5%	1/4W F	R573	1-249-434-11	CARBON	27K	5%	1/4W
R257	1-247-840-00	CARBON	2.4K	5%	1/4W	R574	1-249-434-11	CARBON	27K	5%	1/4W
R259	1-249-425-11	CARBON	4.7K	5%	1/4W F	R575	1-247-874-11	CARBON	62K	5%	1/4W
R260	1-249-421-11	CARBON	2.2K	5%	1/4W F	R576	1-247-866-11	CARBON	30K	5%	1/4W
R291	1-247-874-11	CARBON	62K	5%	1/4W	R577	1-249-431-11	CARBON	15K	5%	1/4W
R292	1-249-410-11	CARBON	270	5%	1/4W F	R578	1-247-852-11	CARBON	7.5K	5%	1/4W
R293	1-249-417-11	CARBON	1K	5%	1/4W F	R579	1-249-421-11	CARBON	2.2K	5%	1/4W F
R294	1-247-807-31	CARBON	100	5%	1/4W	R581	1-249-434-11	CARBON	27K	5%	1/4W
R301	1-249-429-11	CARBON	10K	5%	1/4W	R582	1-249-434-11	CARBON	27K	5%	1/4W
R304	1-249-425-11	CARBON	4.7K	5%	1/4W F	R583	1-249-434-11	CARBON	27K	5%	1/4W
R305	1-249-425-11	CARBON	4.7K	5%	1/4W F	R584	1-249-434-11	CARBON	27K	5%	1/4W
R307	1-249-427-11	CARBON	6.8K	5%	1/4W F	R585	1-247-874-11	CARBON	62K	5%	1/4W
R308	1-249-421-11	CARBON	2.2K	5%	1/4W F	R586	1-247-866-11	CARBON	30K	5%	1/4W
R351	1-249-429-11	CARBON	10K	5%	1/4W	R587	1-249-431-11	CARBON	15K	5%	1/4W
R354	1-249-425-11	CARBON	4.7K	5%	1/4W F	R588	1-247-852-11	CARBON	7.5K	5%	1/4W
R355	1-249-425-11	CARBON	4.7K	5%	1/4W F	R589	1-249-421-11	CARBON	2.2K	5%	1/4W F
R357	1-249-427-11	CARBON	6.8K	5%	1/4W F	R601	1-249-433-11	CARBON	22K	5%	1/4W
R358	1-249-421-11	CARBON	2.2K	5%	1/4W F	R602	1-249-417-11	CARBON	1K	5%	1/4W F
R401	1-249-429-11	CARBON	10K	5%	1/4W	R603	1-215-455-00	METAL	27K	1%	1/4W
R404	1-249-425-11	CARBON	4.7K	5%	1/4W F	R604	1-249-433-11	CARBON	22K	5%	1/4W
R405	1-249-425-11	CARBON	4.7K	5%	1/4W F	R605	1-249-429-11	CARBON	10K	5%	1/4W
R407	1-249-427-11	CARBON	6.8K	5%	1/4W F	R606	1-249-433-11	CARBON	22K	5%	1/4W
R408	1-249-421-11	CARBON	2.2K	5%	1/4W F	R607	1-249-433-11	CARBON	22K	5%	1/4W
R451	1-249-429-11	CARBON	10K	5%	1/4W	R608	1-249-433-11	CARBON	22K	5%	1/4W
R454	1-249-425-11	CARBON	4.7K	5%	1/4W F	R609	1-249-433-11	CARBON	22K	5%	1/4W
R455	1-249-425-11	CARBON	4.7K	5%	1/4W F	R610	1-249-433-11	CARBON	22K	5%	1/4W
R457	1-249-427-11	CARBON	6.8K	5%	1/4W F	R621	1-249-436-11	CARBON	39K	5%	1/4W
R458	1-249-421-11	CARBON	2.2K	5%	1/4W F	R622	1-247-874-11	CARBON	62K	5%	1/4W
R521	1-249-425-11	CARBON	4.7K	5%	1/4W F	R623	1-247-866-11	CARBON	30K	5%	1/4W
R524	1-249-441-11	CARBON	100K	5%	1/4W	R624	1-249-435-11	CARBON	33K	5%	1/4W
R525	1-247-844-11	CARBON	3.6K	5%	1/4W	R625	1-249-437-11	CARBON	47K	5%	1/4W
R526	1-249-431-11	CARBON	15K	5%	1/4W	R626	1-247-864-11	CARBON	24K	5%	1/4W
R527	1-249-421-11	CARBON	2.2K	5%	1/4W F	R631	1-247-866-11	CARBON	30K	5%	1/4W
R528	1-249-429-11	CARBON	10K	5%	1/4W	R632	1-247-868-11	CARBON	36K	5%	1/4W
R529	1-249-437-11	CARBON	47K	5%	1/4W	R633	1-249-429-11	CARBON	10K	5%	1/4W
R530	1-249-437-11	CARBON	47K	5%	1/4W	R634	1-249-433-11	CARBON	22K	5%	1/4W
R531	1-249-389-11	CARBON	4.7	5%	1/4W F	R635	1-247-876-11	CARBON	75K	5%	1/4W
R532	1-249-389-11	CARBON	4.7	5%	1/4W F	R636	1-249-432-11	CARBON	18K	5%	1/4W
R541	1-249-425-11	CARBON	4.7K	5%	1/4W F	R641	1-249-434-11	CARBON	27K	5%	1/4W
R544	1-249-441-11	CARBON	100K	5%	1/4W	R642	1-247-864-11	CARBON	24K	5%	1/4W
R545	1-247-844-11	CARBON	3.6K	5%	1/4W	R643	1-249-437-11	CARBON	47K	5%	1/4W
R546	1-249-431-11	CARBON	15K	5%	1/4W	R644	1-249-437-11	CARBON	47K	5%	1/4W
R547	1-249-421-11	CARBON	2.2K	5%	1/4W F	R645	1-247-866-11	CARBON	30K	5%	1/4W
R548	1-249-429-11	CARBON	10K	5%	1/4W	R646	1-249-440-11	CARBON	82K	5%	1/4W
R549	1-249-437-11	CARBON	47K	5%	1/4W	R651	1-249-433-11	CARBON	22K	5%	1/4W
R550	1-249-437-11	CARBON	47K	5%	1/4W	R652	1-249-417-11	CARBON	1K	5%	1/4W F
R551	1-249-389-11	CARBON	4.7	5%	1/4W F	R653	1-215-455-00	METAL	27K	1%	1/4W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R655	1-249-439-11	CARBON	68K 5% 1/4W	△R720	1-219-139-11	FUSIBLE	0.68 10% 1/4W
R656	1-249-429-11	CARBON	10K 5% 1/4W	△R721	1-219-136-11	FUSIBLE	0.22 10% 1/4W
R657	1-249-433-11	CARBON	22K 5% 1/4W	R751	1-249-433-11	CARBON	22K 5% 1/4W
R658	1-249-433-11	CARBON	22K 5% 1/4W	R752	1-249-421-11	CARBON	2.2K 5% 1/4W F
R662	1-247-868-11	CARBON	36K 5% 1/4W	R753	1-249-421-11	CARBON	2.2K 5% 1/4W F
R663	1-249-440-11	CARBON	82K 5% 1/4W	R754	1-249-421-11	CARBON	2.2K 5% 1/4W F
R664	1-249-440-11	CARBON	82K 5% 1/4W	R755	1-249-421-11	CARBON	2.2K 5% 1/4W F
R665	1-249-432-11	CARBON	18K 5% 1/4W	R756	1-249-417-11	CARBON	1K 5% 1/4W F
R666	1-249-432-11	CARBON	18K 5% 1/4W	R757	1-249-417-11	CARBON	1K 5% 1/4W F
R667	1-249-439-11	CARBON	68K 5% 1/4W	R758	1-249-417-11	CARBON	1K 5% 1/4W F
R668	1-249-434-11	CARBON	27K 5% 1/4W	R759	1-249-415-11	CARBON	680 5% 1/4W F
R669	1-247-870-11	CARBON	43K 5% 1/4W	R760	1-249-422-11	CARBON	2.7K 5% 1/4W F
R670	1-249-437-11	CARBON	47K 5% 1/4W	R761	1-249-424-11	CARBON	3.9K 5% 1/4W F
R671	1-249-432-11	CARBON	18K 5% 1/4W	R762	1-249-423-11	CARBON	3.3K 5% 1/4W F
R672	1-249-432-11	CARBON	18K 5% 1/4W	R763	1-247-807-31	CARBON	100 5% 1/4W
R673	1-249-438-11	CARBON	56K 5% 1/4W	R770	1-249-417-11	CARBON	1K 5% 1/4W F
R674	1-247-864-11	CARBON	24K 5% 1/4W	R781	1-247-887-00	CARBON	220K 5% 1/4W
R675	1-249-436-11	CARBON	39K 5% 1/4W	R782	1-249-425-11	CARBON	4.7K 5% 1/4W F
R676	1-247-874-11	CARBON	62K 5% 1/4W	R783	1-249-437-11	CARBON	47K 5% 1/4W
R677	1-249-431-11	CARBON	15K 5% 1/4W	R784	1-249-428-11	CARBON	8.2K 5% 1/4W F
R678	1-249-431-11	CARBON	15K 5% 1/4W	R785	1-249-441-11	CARBON	100K 5% 1/4W
R679	1-249-438-11	CARBON	56K 5% 1/4W	R786	1-249-423-11	CARBON	3.3K 5% 1/4W F
R681	1-249-436-11	CARBON	39K 5% 1/4W	R787	1-249-421-11	CARBON	2.2K 5% 1/4W F
R682	1-247-874-11	CARBON	62K 5% 1/4W	R788	1-249-441-11	CARBON	100K 5% 1/4W
R683	1-247-866-11	CARBON	30K 5% 1/4W	R801	1-249-422-11	CARBON	2.7K 5% 1/4W F
R684	1-249-435-11	CARBON	33K 5% 1/4W	R802	1-247-834-11	CARBON	1.3K 5% 1/4W
R685	1-249-437-11	CARBON	47K 5% 1/4W	R803	1-249-441-11	CARBON	100K 5% 1/4W
R686	1-247-864-11	CARBON	24K 5% 1/4W	R804	1-249-425-11	CARBON	4.7K 5% 1/4W F
R687	1-247-866-11	CARBON	30K 5% 1/4W	R805	1-249-429-11	CARBON	10K 5% 1/4W
R688	1-247-868-11	CARBON	36K 5% 1/4W	R806	1-249-425-11	CARBON	4.7K 5% 1/4W F
R689	1-247-856-00	CARBON	11K 5% 1/4W	R807	1-249-429-11	CARBON	10K 5% 1/4W
R690	1-249-433-11	CARBON	22K 5% 1/4W	R808	1-247-850-11	CARBON	6.2K 5% 1/4W
R691	1-247-876-11	CARBON	75K 5% 1/4W	R809	1-249-425-11	CARBON	4.7K 5% 1/4W F
R692	1-249-432-11	CARBON	18K 5% 1/4W	R810	1-249-429-11	CARBON	10K 5% 1/4W
R693	1-249-434-11	CARBON	27K 5% 1/4W	R811	1-249-425-11	CARBON	4.7K 5% 1/4W F
R694	1-247-864-11	CARBON	24K 5% 1/4W	R812	1-249-429-11	CARBON	10K 5% 1/4W
R695	1-249-437-11	CARBON	47K 5% 1/4W	R813	1-249-433-11	CARBON	22K 5% 1/4W
R696	1-249-437-11	CARBON	47K 5% 1/4W	R814	1-249-433-11	CARBON	22K 5% 1/4W
R697	1-249-434-11	CARBON	27K 5% 1/4W	R815	1-249-556-11	CARBON	1.5K 5% 1/4W
R698	1-249-440-11	CARBON	82K 5% 1/4W	R816	1-249-422-11	CARBON	2.7K 5% 1/4W F
R701	1-249-433-11	CARBON	22K 5% 1/4W	R817	1-247-834-11	CARBON	1.3K 5% 1/4W
R702	1-249-421-11	CARBON	2.2K 5% 1/4W F	R818	1-249-425-11	CARBON	4.7K 5% 1/4W F
△R703	1-219-136-11	FUSIBLE	0.22 10% 1/4W	R819	1-249-433-11	CARBON	22K 5% 1/4W
△R704	1-219-136-11	FUSIBLE	0.22 10% 1/4W	R821	1-247-850-11	CARBON	6.2K 5% 1/4W
R705	1-249-422-11	CARBON	2.7K 5% 1/4W F	R822	1-249-429-11	CARBON	10K 5% 1/4W
R706	1-249-421-11	CARBON	2.2K 5% 1/4W F	R823	1-249-425-11	CARBON	4.7K 5% 1/4W F
R707	1-247-840-00	CARBON	2.4K 5% 1/4W	R824	1-249-425-11	CARBON	4.7K 5% 1/4W F
R708	1-249-430-11	CARBON	12K 5% 1/4W	R825	1-249-425-11	CARBON	4.7K 5% 1/4W F
R709	1-249-430-11	CARBON	12K 5% 1/4W	R827	1-249-437-11	CARBON	47K 5% 1/4W
R710	1-249-436-11	CARBON	39K 5% 1/4W	R828	1-249-417-11	CARBON	1K 5% 1/4W F

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R829	1-249-441-11 CARBON	100K 5%	1/4W	R896	1-249-417-11 CARBON	1K 5%	1/4W F
R830	1-249-429-11 CARBON	10K 5%	1/4W	R897	1-247-807-31 CARBON	100 5%	1/4W
R831	1-249-429-11 CARBON	10K 5%	1/4W	R898	1-247-807-31 CARBON	100 5%	1/4W
R832	1-249-433-11 CARBON	22K 5%	1/4W	R899	1-247-807-31 CARBON	100 5%	1/4W
R833	1-249-429-11 CARBON	10K 5%	1/4W	R937	1-249-433-11 CARBON	22K 5%	1/4W
R834	1-249-421-11 CARBON	2.2K 5%	1/4W F	R941	1-249-433-11 CARBON	22K 5%	1/4W
R835	1-249-429-11 CARBON	10K 5%	1/4W	R942	1-249-427-11 CARBON	6.8K 5%	1/4W F
R836	1-249-417-11 CARBON	1K 5%	1/4W F	R943	1-249-433-11 CARBON	22K 5%	1/4W
R837	1-249-412-11 CARBON	390 5%	1/4W F	R945	1-249-429-11 CARBON	10K 5%	1/4W
R838	1-249-421-11 CARBON	2.2K 5%	1/4W F	R946	1-249-429-11 CARBON	10K 5%	1/4W
R839	1-249-417-11 CARBON	1K 5%	1/4W F	R948	1-249-433-11 CARBON	22K 5%	1/4W
R841	1-249-429-11 CARBON	10K 5%	1/4W	R955	1-247-895-00 CARBON	470K 5%	1/4W
R842	1-249-433-11 CARBON	22K 5%	1/4W	R956	1-247-895-00 CARBON	470K 5%	1/4W
R843	1-249-429-11 CARBON	10K 5%	1/4W	R957	1-249-436-11 CARBON	39K 5%	1/4W
R844	1-249-421-11 CARBON	2.2K 5%	1/4W F	R958	1-249-436-11 CARBON	39K 5%	1/4W
R845	1-249-429-11 CARBON	10K 5%	1/4W	R964	1-249-436-11 CARBON	39K 5%	1/4W
R846	1-249-417-11 CARBON	1K 5%	1/4W F	R965	1-247-895-00 CARBON	470K 5%	1/4W
R847	1-249-412-11 CARBON	390 5%	1/4W F	R966	1-247-895-00 CARBON	470K 5%	1/4W
R851	1-249-422-11 CARBON	2.7K 5%	1/4W F	R967	1-249-436-11 CARBON	39K 5%	1/4W
R852	1-247-718-11 CARBON	2.7K 5%	1/4W F	R970	1-249-425-11 CARBON	4.7K 5%	1/4W F
R853	1-249-422-11 CARBON	2.7K 5%	1/4W F	R977	1-249-425-11 CARBON	4.7K 5%	1/4W F
R854	1-249-422-11 CARBON	2.7K 5%	1/4W F	R978	1-249-425-11 CARBON	4.7K 5%	1/4W F
R855	1-249-422-11 CARBON	2.7K 5%	1/4W F	R979	1-249-425-11 CARBON	4.7K 5%	1/4W F
R863	1-249-421-11 CARBON	2.2K 5%	1/4W F	R980	1-249-425-11 CARBON	4.7K 5%	1/4W F
R864	1-249-421-11 CARBON	2.2K 5%	1/4W F	R989	1-249-425-11 CARBON	4.7K 5%	1/4W F
R871	1-249-433-11 CARBON	22K 5%	1/4W	R990	1-249-425-11 CARBON	4.7K 5%	1/4W F
R872	1-247-864-11 CARBON	24K 5%	1/4W	R999	1-249-425-11 CARBON	4.7K 5%	1/4W F
R873	1-249-411-11 CARBON	330 5%	1/4W	R1012	1-247-807-31 CARBON	100 5%	1/4W
R874	1-247-830-11 CARBON	910 5%	1/4W	R1013	1-247-807-31 CARBON	100 5%	1/4W
R875	1-249-418-11 CARBON	1.2K 5%	1/4W F	R1014	1-247-807-31 CARBON	100 5%	1/4W
R876	1-249-417-11 CARBON	1K 5%	1/4W F	R1015	1-247-807-31 CARBON	100 5%	1/4W
△R877	1-212-950-00 FUSIBLE	4.7 5%	1/2W F	R1016	1-247-807-31 CARBON	100 5%	1/4W
R878	1-249-416-11 CARBON	820 5%	1/4W F	R1017	1-247-807-31 CARBON	100 5%	1/4W
R879	1-249-419-11 CARBON	1.5K 5%	1/4W F	R1018	1-247-807-31 CARBON	100 5%	1/4W
R880	1-249-417-11 CARBON	1K 5%	1/4W F	R1019	1-247-807-31 CARBON	100 5%	1/4W
△R881	1-212-950-00 FUSIBLE	4.7 5%	1/2W F	R1022	1-247-807-31 CARBON	100 5%	1/4W
R882	1-249-433-11 CARBON	22K 5%	1/4W	R1023	1-247-807-31 CARBON	100 5%	1/4W
R883	1-247-864-11 CARBON	24K 5%	1/4W	R1024	1-247-807-31 CARBON	100 5%	1/4W
R884	1-249-411-11 CARBON	330 5%	1/4W	R1025	1-247-807-31 CARBON	100 5%	1/4W
R885	1-247-830-11 CARBON	910 5%	1/4W	R1026	1-247-807-31 CARBON	100 5%	1/4W
R886	1-249-418-11 CARBON	1.2K 5%	1/4W F	R1027	1-247-807-31 CARBON	100 5%	1/4W
R887	1-249-417-11 CARBON	1K 5%	1/4W F	R1028	1-247-807-31 CARBON	100 5%	1/4W
△R888	1-212-950-00 FUSIBLE	4.7 5%	1/2W F	R1029	1-247-807-31 CARBON	100 5%	1/4W
R889	1-249-416-11 CARBON	820 5%	1/4W F	R1401	1-249-421-11 CARBON	2.2K 5%	1/4W F
R890	1-249-419-11 CARBON	1.5K 5%	1/4W F	R2401	1-249-421-11 CARBON	2.2K 5%	1/4W F
R891	1-249-417-11 CARBON	1K 5%	1/4W F				
△R892	1-212-950-00 FUSIBLE	4.7 5%	1/2W F				
R893	1-249-433-11 CARBON	22K 5%	1/4W	RV121	1-238-601-11 RES, ADJ, CARBON 22K		
R894	1-249-433-11 CARBON	22K 5%	1/4W	RV131	1-238-600-11 RES, ADJ, CARBON 10K		
R895	1-249-441-11 CARBON	100K 5%	1/4W	RV141	1-238-601-11 RES, ADJ, CARBON 22K		

The components identified by mark **△** or dotted line with mark **△** are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque **△** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Consisting the following section in the panel.
(CONTROL S/COVER/DB VOL/DOLBY/HP/PJ/POWER SW/
POWER TRANSFORMER/REC VOL/RM SENSOR/SW (A)/SW (B))

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark		
C55	1-163-014-00	CERAMIC CHIP	0.0027uF 5% 50V	C492	1-163-133-00	CERAMIC CHIP	470PF 5% 50V		
C56	1-104-562-11	FILM CHIP	0.082uF 5% 16V	C561	1-124-471-00	ELECT	1000uF 20% 6.3V		
C57	1-104-559-11	FILM CHIP	0.047uF 5% 16V	C562	1-163-033-91	CERAMIC CHIP	0.022uF 50V		
C58	1-164-693-11	CERAMIC CHIP	0.0018uF 5% 50V	C571	1-104-666-11	ELECT	220uF 20% 10V		
C71	1-104-664-11	ELECT	47uF 20% 10V	C572	1-104-666-11	ELECT	220uF 20% 10V		
C72	1-104-664-11	ELECT	47uF 20% 10V	C901	1-165-319-11	CERAMIC CHIP	0.1uF 50V		
C75	1-124-903-11	ELECT	1uF 20% 50V	C902	1-124-443-00	ELECT	100uF 20% 10V		
C81	1-104-664-11	ELECT	47uF 20% 10V	C903	1-165-319-11	CERAMIC CHIP	0.1uF 50V		
C82	1-104-664-11	ELECT	47uF 20% 10V	C910	1-164-161-11	CERAMIC CHIP	0.0022uF 10% 100V		
C111	1-124-907-11	ELECT	10uF 20% 50V	C911	1-163-121-00	CERAMIC CHIP	150PF 5% 50V		
C181	1-124-768-11	ELECT	4.7uF 20% 50V	C912	1-163-011-11	CERAMIC CHIP	0.0015uF 10% 50V		
C211	1-124-907-11	ELECT	10uF 20% 50V	C996	1-165-319-11	CERAMIC CHIP	0.1uF 50V		
C281	1-124-768-11	ELECT	4.7uF 20% 50V	C997	1-136-169-00	FILM	0.22uF 5% 50V		
C371	1-126-963-11	ELECT	4.7uF 20% 50V	C998	1-136-169-00	FILM	0.22uF 5% 50V		
C372	1-124-907-11	ELECT	10uF 20% 50V	C999	1-165-319-11	CERAMIC CHIP	0.1uF 50V		
C375	1-126-963-11	ELECT	4.7uF 20% 50V	< CONNECTOR >					
C376	1-104-561-11	FILM CHIP	0.068uF 5% 16V	* CN73	1-568-955-11	PIN, CONNECTOR 6P			
C377	1-104-563-11	FILM CHIP	0.1uF 5% 16V	CN74	1-506-468-11	PIN, CONNECTOR 3P			
C378	1-124-768-11	ELECT	4.7uF 20% 50V	* CN75	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
C379	1-124-907-11	ELECT	10uF 20% 50V	* CN76	1-568-944-11	PIN, CONNECTOR 6P			
C380	1-124-916-11	ELECT	22uF 20% 63V	CN371	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P			
C381	1-126-963-11	ELECT	4.7uF 20% 50V	CN381	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P			
C382	1-163-119-00	CERAMIC CHIP	120PF 5% 50V	CN471	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P			
C385	1-126-963-11	ELECT	4.7uF 20% 50V	CN481	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P			
C386	1-104-561-11	FILM CHIP	0.068uF 5% 16V	CN560	1-506-468-11	PIN, CONNECTOR 3P			
C387	1-104-563-11	FILM CHIP	0.1uF 5% 16V	* CN562	1-564-337-00	PIN, CONNECTOR 3P			
C388	1-124-768-11	ELECT	4.7uF 20% 50V	CN563	1-506-468-11	PIN, CONNECTOR 3P			
C389	1-124-907-11	ELECT	10uF 20% 50V	CN571	1-506-468-11	PIN, CONNECTOR 3P			
C390	1-124-916-11	ELECT	22uF 20% 63V	CN572	1-770-889-11	CONNECTOR (FFC) 8P			
C391	1-126-963-11	ELECT	4.7uF 20% 50V	* CN702	1-580-230-31	PIN, CONNECTOR (PC BOARD) 2P (US, CND, AUS)			
C392	1-163-133-00	CERAMIC CHIP	470PF 5% 50V	CN901	1-770-679-11	CONNECTOR (FFC) 5P			
C471	1-126-963-11	ELECT	4.7uF 20% 50V	CN902	1-565-951-11	SOCKET, CONNECTOR (PC BOARD) 4P (US, CND)			
C472	1-124-907-11	ELECT	10uF 20% 50V	CN903	1-506-469-11	PIN, CONNECTOR 4P (US, CND)			
C473	1-164-695-11	CERAMIC CHIP	0.0022uF 5% 50V	CN904	1-573-105-11	CONNECTOR, PC BOARD 4P			
C475	1-126-963-11	ELECT	4.7uF 20% 50V	* CN905	1-691-007-11	CONNECTOR, PC BOARD (PLUG) 4P			
C476	1-104-561-11	FILM CHIP	0.068uF 5% 16V	CN906	1-573-105-11	CONNECTOR, PC BOARD 4P			
C477	1-104-563-11	FILM CHIP	0.1uF 5% 16V	* CN907	1-573-107-11	CONNECTOR, PC BOARD (PLUG) 4P			
C478	1-124-768-11	ELECT	4.7uF 20% 50V	CNP71	1-764-814-11	CONNECTOR, BOARD TO BOARD 15P			
C479	1-124-907-11	ELECT	10uF 20% 50V	CNP72	1-764-814-11	CONNECTOR, BOARD TO BOARD 15P			
C480	1-124-916-11	ELECT	22uF 20% 63V	< DIODE >					
C481	1-126-963-11	ELECT	4.7uF 20% 50V	D51	8-719-200-02	DIODE 10E2			
C482	1-163-119-00	CERAMIC CHIP	120PF 5% 50V	D52	8-719-200-02	DIODE 10E2			
C485	1-126-963-11	ELECT	4.7uF 20% 50V	D53	8-719-200-02	DIODE 10E2			
C486	1-104-561-11	FILM CHIP	0.068uF 5% 16V	D54	8-719-200-02	DIODE 10E2			
C487	1-104-563-11	FILM CHIP	0.1uF 5% 16V	D55	8-719-988-62	DIODE 1SS355			
C488	1-124-768-11	ELECT	4.7uF 20% 50V						
C489	1-124-907-11	ELECT	10uF 20% 50V						
C490	1-124-916-11	ELECT	22uF 20% 63V						
C491	1-126-963-11	ELECT	4.7uF 20% 50V						

PANEL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D56	8-719-988-62	DIODE	1SS355	Q904	8-729-805-65	TRANSISTOR	2SA1344
D61	8-719-988-62	DIODE	1SS355	Q905	8-729-805-65	TRANSISTOR	2SA1344
D561	8-719-988-62	DIODE	1SS355	Q906	8-729-805-65	TRANSISTOR	2SA1344
D1031	8-719-988-62	DIODE	1SS355 (US, CND)	Q907	8-729-805-65	TRANSISTOR	2SA1344
D1032	8-719-988-62	DIODE	1SS355 (US, CND)	Q908	8-729-805-65	TRANSISTOR	2SA1344
			< LEAD >	Q909	8-729-805-65	TRANSISTOR	2SA1344
ECP1	1-765-469-11	LEAD (WITH CONNECTOR)		Q910	8-729-805-65	TRANSISTOR	2SA1344
			< IC >	Q911	8-729-805-65	TRANSISTOR	2SA1344
							< RESISTOR >
IC51	8-759-636-55	IC	M5218AFP	R51	1-216-081-00	METAL CHIP	22K 5% 1/10W
IC52	8-759-009-06	IC	MC14052BF	R52	1-216-689-11	METAL CHIP	39K 0.5% 1/10W
IC53	8-759-300-71	IC	HD14053BFP	R53	1-216-067-00	METAL CHIP	5.6K 5% 1/10W
IC54	8-759-100-96	IC	uPC4558G2	R54	1-216-097-00	METAL CHIP	100K 5% 1/10W
IC56	8-759-636-55	IC	M5218AFP	R55	1-216-097-00	METAL CHIP	100K 5% 1/10W
IC57	8-759-100-96	IC	uPC4558G2	R56	1-208-797-11	METAL GLAZE	4.3K 2% 1/10W
IC58	8-759-009-06	IC	MC14052BF	R57	1-216-097-00	METAL CHIP	100K 5% 1/10W
IC59	8-759-636-55	IC	M5218AFP	R58	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
IC60	8-759-281-42	IC	TC9210P	R59	1-216-073-00	METAL CHIP	10K 5% 1/10W
IC71	8-752-066-36	IC	CXA1563M	R60	1-216-073-00	METAL CHIP	10K 5% 1/10W
IC81	8-752-066-36	IC	CXA1563M	▲R61	1-247-696-11	CARBON	47 5% 1/4W F
IC804	8-759-008-79	IC	MC14011BF (US, CND)	▲R62	1-249-401-11	CARBON	47 5% 1/4W F
IC901	8-759-337-51	IC	M38122M2-103FP	R63	1-216-089-00	METAL CHIP	47K 5% 1/10W
IC902	8-749-923-80	IC	GPU90XB	R64	1-216-095-00	METAL CHIP	82K 5% 1/10W
			< JACK >	R65	1-216-089-00	METAL CHIP	47K 5% 1/10W
J501	1-568-519-41	JACK, LARGE TYPE (PHONES)		R66	1-216-089-00	METAL CHIP	47K 5% 1/10W
			< FILTER >	R71	1-216-682-11	METAL CHIP	20K 0.5% 1/10W
LPF371	1-236-147-11	FILTER, LOW PASS		R73	1-216-081-00	METAL CHIP	22K 5% 1/10W
LPF471	1-236-147-11	FILTER, LOW PASS		R81	1-216-682-11	METAL CHIP	20K 0.5% 1/10W
			< JACK >	R83	1-216-081-00	METAL CHIP	22K 5% 1/10W
PJ561	1-573-070-11	JACK, PIN 4P (LINE IN/OUT)		R85	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
			< TRANSISTOR >	R86	1-216-081-00	METAL CHIP	22K 5% 1/10W
Q51	8-729-107-43	TRANSISTOR	2SC3624-L18	R111	1-216-083-00	METAL CHIP	27K 5% 1/10W
Q52	8-729-107-43	TRANSISTOR	2SC3624-L18	R112	1-216-083-00	METAL CHIP	27K 5% 1/10W
Q86	8-729-805-45	TRANSISTOR	2SC3395	R113	1-216-089-00	METAL CHIP	47K 5% 1/10W
Q111	8-729-107-43	TRANSISTOR	2SC3624-L18	R114	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
Q161	8-729-922-37	TRANSISTOR	2SD2144S-UVW	R115	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
				R116	1-216-089-00	METAL CHIP	47K 5% 1/10W
Q211	8-729-107-43	TRANSISTOR	2SC3624-L18	R117	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
Q261	8-729-922-37	TRANSISTOR	2SD2144S-UVW	R161	1-216-081-00	METAL CHIP	22K 5% 1/10W
Q371	8-729-805-41	TRANSISTOR	2SC3398	R162	1-216-049-91	METAL GLAZE	1K 5% 1/10W
Q471	8-729-805-41	TRANSISTOR	2SC3398	R163	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
Q561	8-729-901-06	TRANSISTOR	DTA144EK	R164	1-216-089-00	METAL CHIP	47K 5% 1/10W
				R165	1-216-083-00	METAL CHIP	27K 5% 1/10W
Q562	8-729-216-22	TRANSISTOR	2SA1162-G	R171	1-216-097-00	METAL CHIP	100K 5% 1/10W
Q901	8-729-805-65	TRANSISTOR	2SA1344	R172	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
Q902	8-729-805-65	TRANSISTOR	2SA1344	R173	1-216-079-00	METAL CHIP	18K 5% 1/10W
Q903	8-729-805-65	TRANSISTOR	2SA1344	R174	1-216-033-00	METAL CHIP	220 5% 1/10W
				R181	1-216-073-00	METAL CHIP	10K 5% 1/10W
				R182	1-216-684-11	METAL CHIP	24K 0.5% 1/10W

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ▲ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R183	1-216-097-00	METAL CHIP	100K 5% 1/10W	R910	1-216-097-00	METAL CHIP	100K 5% 1/10W
R184	1-216-077-00	METAL CHIP	15K 5% 1/10W	R911	1-216-097-00	METAL CHIP	100K 5% 1/10W
R185	1-208-799-11	METAL GLAZE	5. 1K 2% 1/10W	R912	1-216-097-00	METAL CHIP	100K 5% 1/10W
R186	1-216-097-00	METAL CHIP	100K 5% 1/10W	R913	1-216-097-00	METAL CHIP	100K 5% 1/10W
R211	1-216-083-00	METAL CHIP	27K 5% 1/10W	R914	1-216-073-00	METAL CHIP	10K 5% 1/10W
R212	1-216-083-00	METAL CHIP	27K 5% 1/10W	R915	1-216-097-00	METAL CHIP	100K 5% 1/10W
R213	1-216-089-00	METAL CHIP	47K 5% 1/10W	R916	1-216-073-00	METAL CHIP	10K 5% 1/10W
R214	1-216-057-00	METAL CHIP	2. 2K 5% 1/10W	R917	1-216-073-00	METAL CHIP	10K 5% 1/10W
R215	1-216-065-00	METAL CHIP	4. 7K 5% 1/10W	R918	1-216-073-00	METAL CHIP	10K 5% 1/10W
R216	1-216-089-00	METAL CHIP	47K 5% 1/10W	R919	1-216-073-00	METAL CHIP	10K 5% 1/10W
R217	1-216-057-00	METAL CHIP	2. 2K 5% 1/10W	R920	1-216-097-00	METAL CHIP	100K 5% 1/10W
R261	1-216-081-00	METAL CHIP	22K 5% 1/10W	R921	1-216-097-00	METAL CHIP	100K 5% 1/10W
R262	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R922	1-216-025-91	METAL GLAZE	100 5% 1/10W
R263	1-216-057-00	METAL CHIP	2. 2K 5% 1/10W	R923	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R264	1-216-089-00	METAL CHIP	47K 5% 1/10W	R925	1-216-097-00	METAL CHIP	100K 5% 1/10W
R265	1-216-083-00	METAL CHIP	27K 5% 1/10W	R926	1-216-097-00	METAL CHIP	100K 5% 1/10W
R271	1-216-097-00	METAL CHIP	100K 5% 1/10W	R927	1-216-097-00	METAL CHIP	100K 5% 1/10W
R272	1-216-065-00	METAL CHIP	4. 7K 5% 1/10W	R928	1-216-097-00	METAL CHIP	100K 5% 1/10W
R273	1-216-079-00	METAL CHIP	18K 5% 1/10W	R931	1-216-051-00	METAL CHIP	1. 2K 5% 1/10W
R274	1-216-033-00	METAL CHIP	220 5% 1/10W	R938	1-216-077-00	METAL CHIP	15K 5% 1/10W
R281	1-216-073-00	METAL CHIP	10K 5% 1/10W	R939	1-216-089-00	METAL CHIP	47K 5% 1/10W
R282	1-216-684-11	METAL CHIP	24K 0. 5% 1/10W	R940	1-216-051-00	METAL CHIP	1. 2K 5% 1/10W
R283	1-216-097-00	METAL CHIP	100K 5% 1/10W	R951	1-216-051-00	METAL CHIP	1. 2K 5% 1/10W
R284	1-216-077-00	METAL CHIP	15K 5% 1/10W	R952	1-216-055-00	METAL CHIP	1. 8K 5% 1/10W
R285	1-208-799-11	METAL GLAZE	5. 1K 2% 1/10W	R953	1-216-059-00	METAL CHIP	2. 7K 5% 1/10W
R286	1-216-097-00	METAL CHIP	100K 5% 1/10W	R954	1-216-063-00	METAL CHIP	3. 9K 5% 1/10W
R371	1-216-097-00	METAL CHIP	100K 5% 1/10W	R959	1-216-069-00	METAL CHIP	6. 8K 5% 1/10W
R372	1-216-097-00	METAL CHIP	100K 5% 1/10W	R960	1-216-077-00	METAL CHIP	15K 5% 1/10W
R373	1-216-073-00	METAL CHIP	10K 5% 1/10W	R961	1-216-089-00	METAL CHIP	47K 5% 1/10W
R374	1-216-079-00	METAL CHIP	18K 5% 1/10W	R962	1-216-051-00	METAL CHIP	1. 2K 5% 1/10W
R375	1-216-061-00	METAL CHIP	3. 3K 5% 1/10W	R963	1-216-055-00	METAL CHIP	1. 8K 5% 1/10W
R376	1-216-097-00	METAL CHIP	100K 5% 1/10W	R968	1-216-059-00	METAL CHIP	2. 7K 5% 1/10W
R377	1-216-071-00	METAL CHIP	8. 2K 5% 1/10W	R969	1-216-063-00	METAL CHIP	3. 9K 5% 1/10W
R471	1-216-097-00	METAL CHIP	100K 5% 1/10W	R971	1-216-069-00	METAL CHIP	6. 8K 5% 1/10W
R472	1-216-097-00	METAL CHIP	100K 5% 1/10W	R972	1-216-077-00	METAL CHIP	15K 5% 1/10W
R473	1-216-073-00	METAL CHIP	10K 5% 1/10W	R973	1-216-089-00	METAL CHIP	47K 5% 1/10W
R474	1-216-079-00	METAL CHIP	18K 5% 1/10W	R974	1-216-051-00	METAL CHIP	1. 2K 5% 1/10W
R475	1-216-061-00	METAL CHIP	3. 3K 5% 1/10W	R975	1-216-055-00	METAL CHIP	1. 8K 5% 1/10W
R476	1-216-097-00	METAL CHIP	100K 5% 1/10W	R976	1-216-059-00	METAL CHIP	2. 7K 5% 1/10W
R477	1-216-071-00	METAL CHIP	8. 2K 5% 1/10W	R981	1-216-063-00	METAL CHIP	3. 9K 5% 1/10W
R561	1-216-033-00	METAL CHIP	220 5% 1/10W	R982	1-216-069-00	METAL CHIP	6. 8K 5% 1/10W
R562	1-216-081-00	METAL CHIP	22K 5% 1/10W	R983	1-216-077-00	METAL CHIP	15K 5% 1/10W
R901	1-216-097-00	METAL CHIP	100K 5% 1/10W	R984	1-216-089-00	METAL CHIP	47K 5% 1/10W
R902	1-216-097-00	METAL CHIP	100K 5% 1/10W	R985	1-216-051-00	METAL CHIP	1. 2K 5% 1/10W
R903	1-216-097-00	METAL CHIP	100K 5% 1/10W	R986	1-216-055-00	METAL CHIP	1. 8K 5% 1/10W
R904	1-216-097-00	METAL CHIP	100K 5% 1/10W	R987	1-216-059-00	METAL CHIP	2. 7K 5% 1/10W
R905	1-216-097-00	METAL CHIP	100K 5% 1/10W	R988	1-216-069-00	METAL CHIP	6. 8K 5% 1/10W
R906	1-216-097-00	METAL CHIP	100K 5% 1/10W	R991	1-216-077-00	METAL CHIP	15K 5% 1/10W
R907	1-216-097-00	METAL CHIP	100K 5% 1/10W	R992	1-216-089-00	METAL CHIP	47K 5% 1/10W
R908	1-216-097-00	METAL CHIP	100K 5% 1/10W	R993	1-216-051-00	METAL CHIP	1. 2K 5% 1/10W

PANEL REEL MOTOR TRANSLATION

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R994	1-216-055-00	METAL CHIP	1. 8K	5%	1/10W	S976	1-554-303-21	SWITCH, TACTILE (AUTO CAL, 9 DECK-B)			
R995	1-216-059-00	METAL CHIP	2. 7K	5%	1/10W	S977	1-554-303-21	SWITCH, TACTILE (DOLBY NR, 6 DECK-B)			
R996	1-216-063-00	METAL CHIP	3. 9K	5%	1/10W	S978	1-554-303-21	SWITCH, TACTILE (AUTO PAUSE, 3)			
R997	1-216-063-00	METAL CHIP	3. 9K	5%	1/10W	S979	1-571-452-11	SWITCH, SLIDE (TIMER)			
R998	1-216-069-00	METAL CHIP	6. 8K	5%	1/10W	S983	1-554-303-21	SWITCH, TACTILE (RMS DISPLAY)			
R1031	1-216-001-00	METAL CHIP	10	5%	1/10W (US, CND)	S984	1-554-303-21	SWITCH, TACTILE (RMS/START)			
R1032	1-216-073-00	METAL CHIP	10K	5%	1/10W (US, CND)	S985	1-554-303-21	SWITCH, TACTILE (RMS CHECK)			
R1033	1-216-073-00	METAL CHIP	10K	5%	1/10W (US, CND)	S986	1-554-303-21	SWITCH, TACTILE (RMS SET)			
R1034	1-216-025-91	METAL GLAZE	100	5%	1/10W (US, CND)	S987	1-554-303-21	SWITCH, TACTILE (PHONE LEVEL -)			
R1035	1-216-073-00	METAL CHIP	10K	5%	1/10W (US, CND)	S988	1-554-303-21	SWITCH, TACTILE (PHONE LEVEL +)			
R1036	1-216-073-00	METAL CHIP	10K	5%	1/10W (US, CND)	S989	1-554-303-21	SWITCH, TACTILE (OPEN/CLOSE ▲ DECK-B)			
			< VARIABLE RESISTOR >			S990	1-554-303-21	SWITCH, TACTILE (OPEN/CLOSE ▲ DECK-A)	< FLUORESCENT INDICATOR >		
RV71	1-223-893-11	RES, VAR 10K/10K (DUBBING LEVEL)				VFD901	1-517-415-11	INDICATOR TUBE, FLUORESCENT			
RV561	1-223-867-11	RES, VAR, CARBON 50K/50K (REC LEVEL)							< VIBRATOR >		
RV562	1-223-892-11	RES, VAR 50K/50K (BALANCE)				X901	1-577-358-21	VIBRATOR, CERAMIC (4MHz)			
RV901	1-223-868-11	RES, VAR 10K (TAPE SPEED)							*****		
			< SWITCH >						*****		
S901	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)							*****		
S931	1-554-303-21	SWITCH, TACTILE (REC MUTE ● DECK-A)							*****		
S932	1-554-303-21	SWITCH, TACTILE (REC ● DECK-A)							*****		
S933	1-554-303-21	SWITCH, TACTILE (AMS ►► DECK-A)							< CAPACITOR >		
S934	1-554-303-21	SWITCH, TACTILE (AMS ◀◀ DECK-A)							*****		
S935	1-554-303-21	SWITCH, TACTILE (PAUSE ■ DECK-A)				C1051	1-124-907-11	ELECT	10uF	20%	50V
S936	1-554-303-21	SWITCH, TACTILE (BACK ◀ DECK-A)				C1052	1-124-907-11	ELECT	10uF	20%	50V
S937	1-554-303-21	SWITCH, TACTILE (FRONT ► DECK-A)				C1053	1-164-159-11	CERAMIC	0.1uF		50V
S938	1-554-303-21	SWITCH, TACTILE (CLEAR ■ DECK-A)							< CONNECTOR >		
S941	1-554-303-21	SWITCH, TACTILE (REC MUTE ● DECK-B)							*****		
S942	1-554-303-21	SWITCH, TACTILE (REC ● DECK-B)							*****		
S943	1-554-303-21	SWITCH, TACTILE (AMS ►► DECK-B)							*****		
S944	1-554-303-21	SWITCH, TACTILE (AMS ◀◀ DECK-B)							*****		
S945	1-554-303-21	SWITCH, TACTILE (PAUSE ■ DECK-B)							< MOTOR >		
S946	1-554-303-21	SWITCH, TACTILE (◀ DECK-B)							*****		
S947	1-554-303-21	SWITCH, TACTILE (► DECK-B)				M1051	X-3356-638-1	MOTOR (REEL R) ASSY			
S948	1-554-303-21	SWITCH, TACTILE (■ DECK-B)				M1052	X-3356-604-1	MOTOR (ASSIST) ASSY			
S961	1-554-303-21	SWITCH, TACTILE (COUNTER RESET DECK-A)							< RESISTOR >		
S962	1-554-303-21	SWITCH, TACTILE (COUNTER MEMORY DECK-A)							*****		
S963	1-554-303-21	SWITCH, TACTILE (PITCH CONTROL ON/OFF, 1)							*****		
S964	1-554-303-21	SWITCH, TACTILE (MPX FILTER, 4)				R1051	1-247-825-31	CARBON	560	5%	1/4W
S965	1-554-303-21	SWITCH, TACTILE (DIR MODE, 7)							*****		
S966	1-554-303-21	SWITCH, TACTILE (AUTO CAL, 8 DECK-A)							*****		
S967	1-554-303-21	SWITCH, TACTILE (DOLBY NR, 5 DECK-A)							*****		
S968	1-554-303-21	SWITCH, TACTILE (BLANK SKIP, 2)							*****		
S971	1-554-303-21	SWITCH, TACTILE (COUNTER RESET DECK-B)							*****		
S972	1-554-303-21	SWITCH, TACTILE (COUNTER MEMORY DECK-B)							*****		
S973	1-554-303-21	SWITCH, TACTILE (SYNCHRO DUBBING NORMAL)							< CONNECTOR >		
S974	1-554-303-21	SWITCH, TACTILE (SYNCHRO DUBBING HIGH, >10)							*****		
S975	1-554-303-21	SWITCH, TACTILE (A+B REC, 10)							*****		

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>

MISCELLANEOUS							

64	1-575-674-11	WIRE, FLAT TYPE (8 CORE)		#1	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT	
73	1-575-663-31	WIRE, FLAT TYPE (5 CORE)		#2	7-685-870-01	SCREW +BVTT 3X5 (S)	
△105	1-551-188-XX	CORD, POWER (E)		#3	7-685-134-19	SCREW (+ PTPWH) (2. 6X8)	
△105	1-590-836-11	CORD, POWER (US, CND)		#4	7-685-871-01	SCREW +BVTT 3X6 (S)	
△105	1-696-845-11	CORD, POWER (AUS)		#5	7-682-548-09	SCREW +BVTT 3X8 (S)	
△106	1-569-007-11	ADAPTER, CONVERSION 2P (E)		#6	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
* CNJ1	1-558-350-21	CORD (WITH CONNECTOR) (CONTROL S IN)	(US, CND)	#7	7-682-548-04	SCREW +BVTT 3X8 (S)	
D1001	8-719-980-85	DIODE SLF-325C		#8	7-621-255-20	SCREW +BVTT 2X4 (S)	
D1091	8-719-950-74	LED SLR314D-B		#9	7-621-770-67	SCREW +BVTT 2.6X6 (S)	
ECP1	1-765-469-11	LEAD (WITH CONNECTOR)		#10	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	
HRPE1001A-2003-722-A	DECK ASSY, HEAD (REC/PB/ERASE)			#11	7-621-255-35	SCREW +BVTT 2X5 (S)	
IC1001	8-749-920-97	PHOTO REFLECTOR GP2S22B		#12	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
IC1002	8-749-920-97	PHOTO REFLECTOR GP2S22B		#13	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
M1051	X-3356-638-1	MOTOR (REEL R) ASSY					
M1052	X-3356-604-1	MOTOR (ASSIST) ASSY					
M1053	X-3356-605-1	MOTOR (CAPSTAN R) ASSY					
Q1091	8-729-809-43	TRANSISTOR SPS-314B-BE					
RV561	1-223-867-11	RES, VAR, CARBON 50K/50K					
△S901	1-570-307-11	SELECTOR, POWER VOLTAGE (E)					
S1001	1-466-525-11	ENCODER, ROTARY					
△T1	1-427-923-11	TRANSFORMER, POWER (AUS)					
△T1	1-427-924-11	TRANSFORMER, POWER (US, CND)					
△T1	1-427-925-11	TRANSFORMER, POWER (E)					
VFD901	1-517-415-11	INDICATOR TUBE, FLUORESCENT					

ACCESSORIES & PACKING MATERIALS							

	1-465-738-11	REMOTE COMMANDER (RM-J903) (E, AUS)					
	1-558-271-11	CORD, CONNECTION (AUDIO 108cm)					
	2-181-754-01	COVER, BATTERY (for RM-J903) (E, AUS)					
*	3-354-913-01	CUSHION					
	3-798-768-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH) (CND, E)					
	3-798-768-21	MANUAL, INSTRUCTION (ENGLISH) (US, AUS)					
*	3-925-711-01	INDIVIDUAL CARTON					

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

SONY SERVICE MANUAL

SUPPLEMENT-1

US Model
Canadian Model
E Model
Australian Model

File this supplement with the service manual.

**Subject : 1. CORRECTION
2. RM SENSOR BOARD AND PANEL BOARD
CHANGED
3. OTHER CHANGES**

(RPC-96006/ECN-TC500422)

1. CORRECTION

- Correct your service manual as shown below.

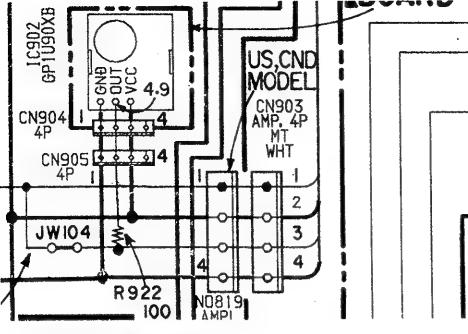
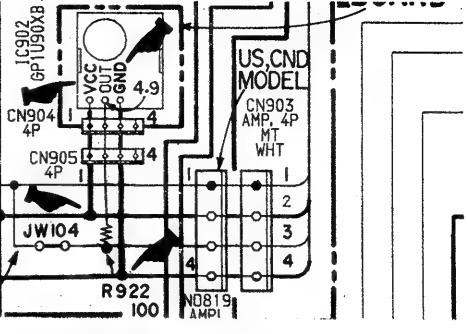
GENERAL

█ : Indicates corrected portion

Page	INCORRECT	CORRECT
3	[3] 1/PITCH CONTROL (Tape speed)	[3] PITCH CONTROL (Tape speed)
	[4] 4/TIMER switch	[4] TIMER switch
	[5] 7/PITCH CONTROL ON/OFF (Tape speed) button	[5] 1/PITCH CONTROL ON/OFF (Tape speed) button
	[6] 2/MPX (multiplex) FILTER ON/OFF button	[6] 4/MPX (multiplex) FILTER ON/OFF button
	[7] 5/DIR (direction) MODE switch	[7] 7/DIR (direction) MODE switch
	[8] BLANK SKIP button	[8] 2/BLANK SKIP button
	[9] DOLBY NR (Dolby noise reduction) buttons (deck A) ON/OFF button B/C/S button	[9] 5/DOLBY NR (Dolby noise reduction) buttons (deck A) OFF/B/C/S button
	[12] 6/DOLBY NR (Dolby noise reduction) buttons (deck B) ON/OFF button B/C/S button	[12] 6/DOLBY NR (Dolby noise reduction) buttons (deck B) OFF/B/C/S button
	[13] AUTO PAUSE button	[13] 3/AUTO PAUSE button
	[14] A+B REC (simultaneous recording) button	[14] 10/A+B REC (simultaneous recording) button
	[15] SYNCHRO DUBBING buttons HIGH Speed button NORMAL Speed button	[15] >10/SYNCHRO DUBBING buttons HIGH Speed button NORMAL Speed button

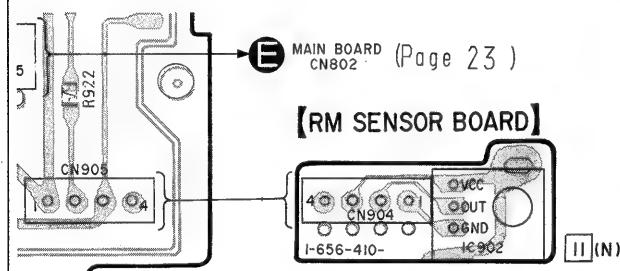
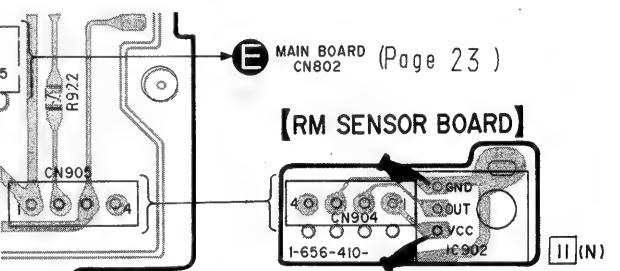
SCHEMATIC DIAGRAM

█ : Indicates corrected portion

Page	INCORRECT	CORRECT
30	<p>[RM SENOR BOARD] [PANEL BOARD] Location: C-E, 5-6</p>  <p>[PANEL BOARD]</p>	<p>[RM SENOR BOARD] [PANEL BOARD] Location: C-E, 5-6</p>  <p>[PANEL BOARD]</p>

PRINTED WIRING BOARD

█ : Indicates corrected portion

Page	INCORRECT	CORRECT
36	<p>[RM SENOR BOARD] [PANEL BOARD] Location: C-D, 8-10</p>  <p>[PANEL BOARD]</p>	<p>[RM SENOR BOARD] [PANEL BOARD] Location: C-D, 8-10</p>  <p>[PANEL BOARD]</p>

EXPLODED VIEWS

Page	INCORRECT				CORRECT			
	Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark
42	69	9-911-844-XX	CUSHION		*	69	3-354-927-21	CUSHION
45	202	X-3356-642-1	FLYWHEEL (R FWD) ASSY		202	X-3356-643-1	FLYWHEEL (R REV) ASSY	
	203	X-3356-643-1	FLYWHEEL (R REV) ASSY		203	X-3356-642-1	FLYWHEEL (R FWD) ASSY	

2. RM SENSOR BOARD and PANEL BOARD CHANGED

The RM SENSOR board has been changed due to improvements made in the remote control light-receiving circuit, and consequently, the panel board has also been changed.

The former type and new type RM SENSOR boards are not interchangeable.

The PANEL board connected to this board is also not interchangeable between the old and new types.

For details of the interchangeabilities of the PANEL board and RM SENSOR board, refer to the following table.

		PANEL board		
		FORMER TYPE (board suffix number: 11)	NEW TYPE (board suffix number: 12)	
			For former IC	For new IC
RM SENSOR Board	FORMER TYPE (IC902: GPU90XB)	○	○ * Note 1	×
	NEW TYPE (IC902: SBX1780-51)	×	×	○ * Note 1

*** Note 1:**

The RM SENSOR board has two kinds of type such as old type (board suffix number: 11) and new type (board suffix number: 12) according to using parts to IC902.

The new type PANEL board (board suffix number: 12) can be made to correspond to the former type and new type RM SENSOR boards by changing the mounted parts to the board.

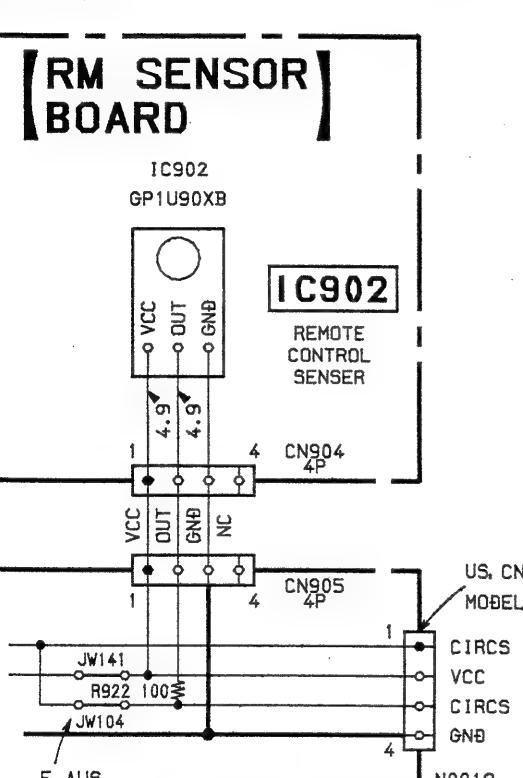
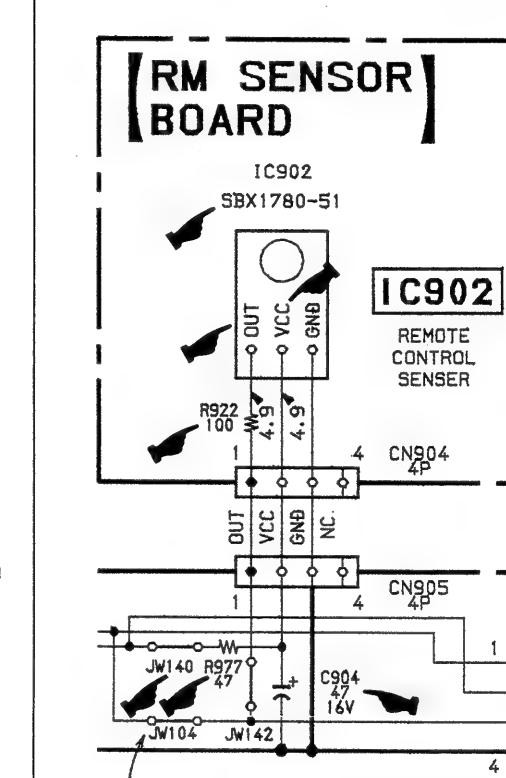
Check if the RM SENSOR board used is the old or new type and use the corresponding PANEL board.

CORRESPONDENCE OF NEW AND OLD RM SENSOR BOARDS

- Use the former type RM SENSOR board only for the former type PANEL board (board suffix number: 11).
(The new type RM SENSOR board cannot be used because of modifications of the connection of the connector.)
- The new type PANEL board (board suffix number: 12) can correspond to the former and new type RM SENSOR boards by changing a part of circuit.
However, the connection of the connector is not interchangeable between the PANEL and RM SENSOR boards.
Refer to the following table and perform the necessary repairs.

Difference between Former and New PANEL and RM SENSOR Boards

: Indicates changed portion

Page	FORMER Type (RM SENSOR BOARD suffix No. -11)	NEW Type (RM SENSOR BOARD suffix No. -12)
31	<p>[RM SENSOR BOARD] [PANEL BOARD] Location: D-E, 5-8</p>  <p>[RM SENSOR BOARD]</p> <p>IC902 GP1U90XB</p> <p>REMOTE CONTROL SENSER</p> <p>1 4.9 4.9 4 CN904 VCC OUT GND NC</p> <p>1 4 CN905 VCC OUT GND NC</p> <p>US. CND MOBEL</p> <p>JW141 R922 100Ω</p> <p>JW104</p> <p>C904 47 16V</p> <p>N0819 4P</p> <p>E. AUS</p> <p>[PANEL BOARD]</p>	<p>[RM SENSOR BOARD]</p>  <p>IC902 SBX1780-51</p> <p>REMOTE CONTROL SENSER</p> <p>1 4.9 4.9 4 CN904 VCC OUT GND NC</p> <p>1 4 CN905 VCC OUT GND NC</p> <p>US. CND MOBEL</p> <p>JW141 R922 100Ω</p> <p>JW104</p> <p>C904 47 16V</p> <p>N0819 4P</p> <p>E. AUS</p> <p>[PANEL BOARD]</p>

Page	FORMER Type (RM SENSOR BOARD suffix No. -11)	NEW Type (RM SENSOR BOARD suffix No. -12)
36	<p>[PANEL BOARD] Location: B-D, 7-9</p> <p>1-656-410-12(B)</p> <p>1-656-410-11(N)</p> <p>[RM SENSOR BOARD] Location: C-D, 9-10</p>	<p>1-656-410-12(B)</p> <p>1-656-410-12(N)</p>
55	<p><u>Ref. No</u> <u>Part No</u> <u>Description</u> <u>Remark</u></p> <p>*** PANEL BOARD ***</p> <p>C904 NO MOUNT</p> <p>* CN905 1-691-007-11 CONNECTOR, PC BOARD (PLUG) 4P</p>	<p><u>Ref. No</u> <u>Part No</u> <u>Description</u> <u>Remark</u></p> <p>*** PANEL BOARD ***</p> <p>C904 1-124-589-11 ELECT 47uF 20% 16V</p> <p>* CN905 1-573-107-11 CONNECTOR, PC BOARD (PLUG) 4P</p>
56	<p>IC902 8-749-923-80 IC GP1U90XB</p> <p>JW140 NO MOUNT</p> <p>JW141 JUMPER WIRE</p>	<p>IC902 8-741-780-51 IC SBX1780-51</p> <p>JW140 JUMPER WIRE</p> <p>JW141 NO MOUNT</p>
57	<p>R922 1-216-025-91 METAL GLAZE 100 5% 1/10W (Note 2)</p> <p>R977 NO MOUNT</p>	<p>R922 1-216-025-91 METAL GLAZE 100 5% 1/10W (Note 2)</p> <p>R977 1-216-017-91 METAL GLAZE 47 5% 1/10W</p>

Note 2:

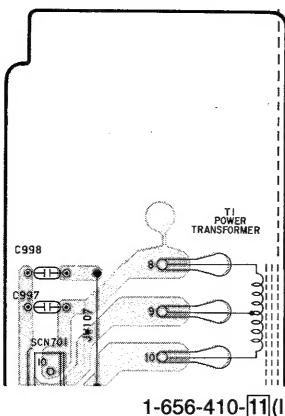
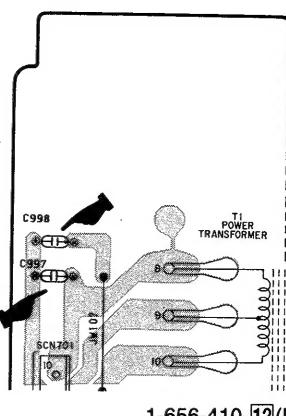
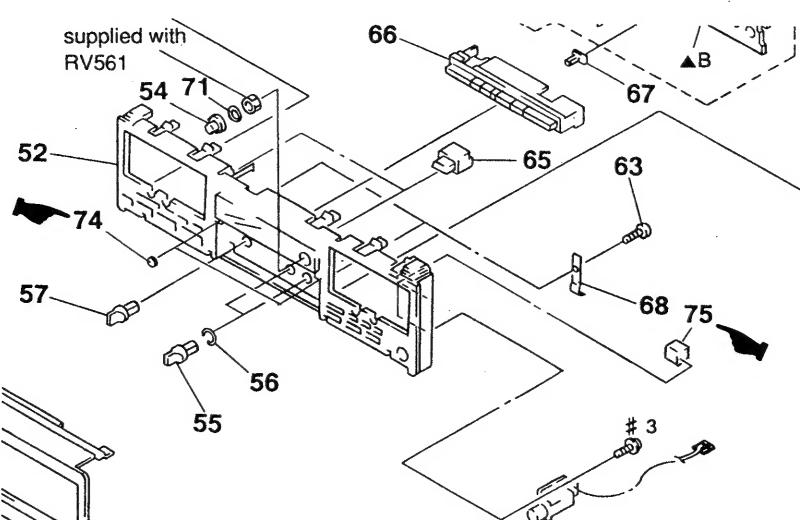
Mount the former type R922 to the PANEL board and new type to the RM SENSOR board.

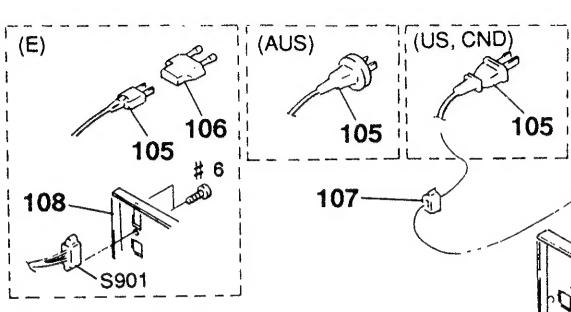
3. OTHER CHANGES

 : Indicates changed portion

NOTE:

- Abbreviation
- CND : Canadian model
- AUS : Australian model

Page	FORMER	NEW
23	<p>[POWER TRANSFORMER BOARD] Location: B-D, 21-22</p>  <p>1-656-410-11(I)</p>	 <p>1-656-410-12(I)</p>
41	<p>Ref. No Part No Description Remark</p> <p>*** EXPLODED VIEWS ***</p> <p>3 3-923-143-01 PLATE, ORNAMENTAL</p>	<p>Ref. No Part No Description Remark</p> <p>*** EXPLODED VIEWS ***</p> <p>3 3-923-143-01 PLATE, ORNAMENTAL (E, AUS) 3 3-923-143-21 PLATE, ORNAMENTAL (US, CND)</p>
42	<p>* 58 3-350-846-21 HOLDER, PCB (US, CND)</p> <p>66 3-923-146-01 BUTTON (COUNTER)</p> <p>* 72 3-704-198-11 SUPPORT, PC (US, CND)</p>	<p>* 58 3-682-419-11 HOLDER, PCB (US, CND)</p> <p>66 3-923-146-01 BUTTON (COUNTER) (US, CND) 66 3-923-146-11 BUTTON (COUNTER) (E, AUS)</p> <p>* 72 3-704-198-01 SUPPORT, PC (US, CND) 74 2-538-217-01 CUSHION 75 9-911-841-99 CUSHION</p>
		

Page	FORMER					NEW						
	Ref. No	Part No	Description			Remark	Ref. No	Part No	Description			Remark
43		ECP1	1-765-469-11 LEAD (WITH CONNECTOR)				ECP1	1-775-756-11 LEAD (WITH CONNECTOR)				
		△S901	1-570-307-11 SELECTOR, POWER VOLTAGE (E)				△S901	1-692-155-11 SELECTOR, POWER VOLTAGE (E)				
												
46	*** ELECTRICAL PARTS LIST *** *** DOLBY (S) BOARD ***					*** ELECTRICAL PARTS LIST *** *** DOLBY (S) BOARD ***						
	R2	1-208-806-11	METAL GLAZE	10K	2%	1/10W	R2	1-208-462-41	METAL GLAZE	10K	2%	1/10W
	R8	1-216-667-11	METAL GLAZE	4.7K	0.5%	1/10W	R8	1-208-453-41	METAL GLAZE	4.7K	2%	1/10W
	R14	1-216-667-11	METAL GLAZE	4.7K	0.5%	1/10W	R14	1-208-453-41	METAL GLAZE	4.7K	2%	1/10W
47	R25	1-208-806-11	METAL GLAZE	10K	2%	1/10W	R25	1-208-462-41	METAL GLAZE	10K	2%	1/10W
47	*** MAIN BOARD ***					*** MAIN BOARD ***						
	C191	1-124-925-11	ELECT	2.2uF	20%	100V	C191	1-126-961-11	ELECT	2.2uF	20%	50V
	C291	1-124-925-11	ELECT	2.2uF	20%	100V	C291	1-126-961-11	ELECT	2.2uF	20%	50V
	C521	1-124-925-11	ELECT	2.2uF	20%	100V	C521	1-126-961-11	ELECT	2.2uF	20%	50V
48	C541	1-124-925-11	ELECT	2.2uF	20%	100V	C541	1-126-961-11	ELECT	2.2uF	20%	50V
	C581	1-124-925-11	ELECT	2.2uF	20%	100V	C581	1-126-961-11	ELECT	2.2uF	20%	50V
	C586	1-124-925-11	ELECT	2.2uF	20%	100V	C586	1-126-961-11	ELECT	2.2uF	20%	50V
	C587	1-124-925-11	ELECT	2.2uF	20%	100V	C587	1-126-961-11	ELECT	2.2uF	20%	50V
	C803	1-124-925-11	ELECT	2.2uF	20%	100V	C803	1-126-961-11	ELECT	2.2uF	20%	50V
	CP521	1-232-946-11	COMPOSITION CIRCUIT BLOCK				CP521	1-233-562-11	COMPOSITION CIRCUIT BLOCK			
	CP541	1-232-946-11	COMPOSITION CIRCUIT BLOCK				CP541	1-233-562-11	COMPOSITION CIRCUIT BLOCK			
49	IC601	8-752-072-16	IC	CXA1598M-T6			IC601	8-752-070-68	IC	CXA1598M		
	IC602	8-752-072-16	IC	CXA1598M-T6			IC602	8-752-070-68	IC	CXA1598M		
	IC801	8-759-337-49	IC	uPD78043AGF-023-3B9			IC801	8-759-356-94	IC	uPD78043AGF-028-3B9		
	Q528	8-729-142-46	TRANSISTOR	2SC2001-LK			Q528	8-729-194-57	TRANSISTOR	2SC945-P		
	Q529	8-729-142-46	TRANSISTOR	2SC2001-LK			Q529	8-729-194-57	TRANSISTOR	2SC945-P		
50	Q548	8-729-142-46	TRANSISTOR	2SC2001-LK			Q548	8-729-194-57	TRANSISTOR	2SC945-P		
	Q549	8-729-142-46	TRANSISTOR	2SC2001-LK			Q549	8-729-194-57	TRANSISTOR	2SC945-P		
52	R762	1-249-423-11	CARBON	3.3K	5%	1/4W F	R762	1-247-843-11	CARBON	3.3K	5%	1/4W
	R786	1-249-423-11	CARBON	3.3K	5%	1/4W F	R786	1-247-843-11	CARBON	3.3K	5%	1/4W

Page	FORMER					NEW								
	Ref. No	Part No	Description			Remark	Ref. No	Part No	Description			Remark		
46	*** PANEL BOARD ***					*** PANEL BOARD ***								
	9-911-844-XX CUSHION					*	3-354-927-21 CUSHION							
47	C380	1-124-916-11 ELECT	22uF	20%	63V	C380	1-126-965-11 ELECT	22uF	20%	50V				
	C390	1-124-916-11 ELECT	22uF	20%	63V	C390	1-126-965-11 ELECT	22uF	20%	50V				
	C480	1-124-916-11 ELECT	22uF	20%	63V	C480	1-126-965-11 ELECT	22uF	20%	50V				
	C490	1-124-916-11 ELECT	22uF	20%	63V	C490	1-126-965-11 ELECT	22uF	20%	50V				
54	ECP1	1-765-469-11 LEAD (WITH CONNECTOR)				ECP1	1-775-756-11 LEAD (WITH CONNECTOR)							
	Q51	8-729-107-43 TRANSISTOR	2SC3624-L18			Q51	8-729-107-46 TRANSISTOR	2SC3624A-L15						
	Q52	8-729-107-43 TRANSISTOR	2SC3624-L18			Q52	8-729-107-46 TRANSISTOR	2SC3624A-L15						
	Q111	8-729-107-43 TRANSISTOR	2SC3624-L18			Q111	8-729-107-46 TRANSISTOR	2SC3624A-L15						
	Q211	8-729-107-43 TRANSISTOR	2SC3624-L18			Q211	8-729-107-46 TRANSISTOR	2SC3624A-L15						
55	*** MISCELLANEOUS ***					*** MISCELLANEOUS ***								
	ECP1	1-765-469-11 LEAD (WITH CONNECTOR)				ECP1	1-775-756-11 LEAD (WITH CONNECTOR)							
	△S901	1-570-307-11 SELECTOR, POWER VOLTAGE (E)				△S901	1-692-155-11 SELECTOR, POWER VOLTAGE (E)							

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Ne les remplacer que par une pièce portant le numéro spécifié.

English

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